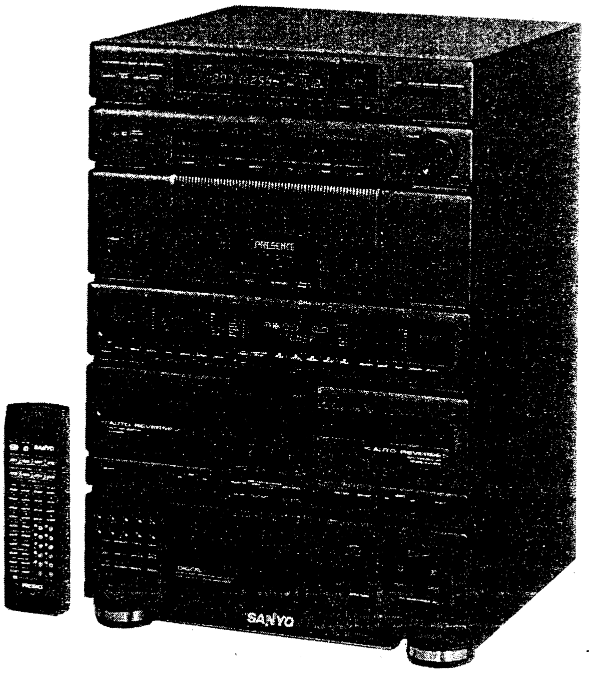
SANYO

SERVICE MANUAL

Compact Disc Audio Component System with Wireless Remote Control

DC DJ5 (GENERAL)



PRODUCT CODE No.
132 355 60

Specifications

Tuner Section

FM

Frequencies received	87.50 ~ 108.00 MHz
IHF pratical sensitivity (mono)	3.3 µV/15.56 dBf
S/N ratio	75 dB (mono, 60 dBf input)
Harmonic distortion	0.1 % (mono, 1 kHz)
Stereo separation	40 dB (1 kHz)
Image frequency interference ratio	40 dB

AM

Frequencies received	531 ~ 1602 kHz
Pratical sensitivity (included antenna)	400 µV/m
S/N ratio	52 dB
Image frequency interference ratio	40 dB
Selectivity	38 dB
IF interference ratio	65 dB

Amplifier Section

Peak music power output	550 W
Input sensitivity/impedance	
PHONO	2.5 mV/50 kΩ
DAT/VCR	150 mV/25 kΩ
AUX	150 mV/25 kΩ
Graphic Equalizer Section	
64 Hz ~ 16 kHz	±12 dB

DECK Section

Motor	DC motor (DECK 1 and DECK 2)
Head	Hi-B hard permalloy head (DECK 1 playback head, DECK 2 recording head) Ferrite head (DECK 2 erasing head)
Fast-forward/rewind time	Approx. 110 sec. (C-60 tape)
Tracks	4-track, 2-channel stereo
S/N ratio (playback)	50 dB
Frequency response	40 Hz ~ 16 kHz (metal tape)
Wow and flutter	0.08 % (WRMS)

CD Player Section

Frequency response	5 Hz ~ 20 kHz ±0.5 dB
Harmonic distortion	Less than 0.04 % (1 kHz)
S/N ratio	95 dB
Wow and flutter	Below measurable limits
Optical pickup	3-beam laser
Error correction	CIRC
Sampling frequency	44.1 kHz
D/A conversion	16-bit linear
Filter	18-bit,8 times over sampling digital filter

General

Power requirements	AC: 110/127/220/240 V,50/60 Hz
Power consumption	280 W
Dimensions (WxHxD)	360 x 509 x 330 mm
Weight (approx.)	12.9 kg

Specifications and design are subject to change without notice.

REFERENCE No. WM-570429

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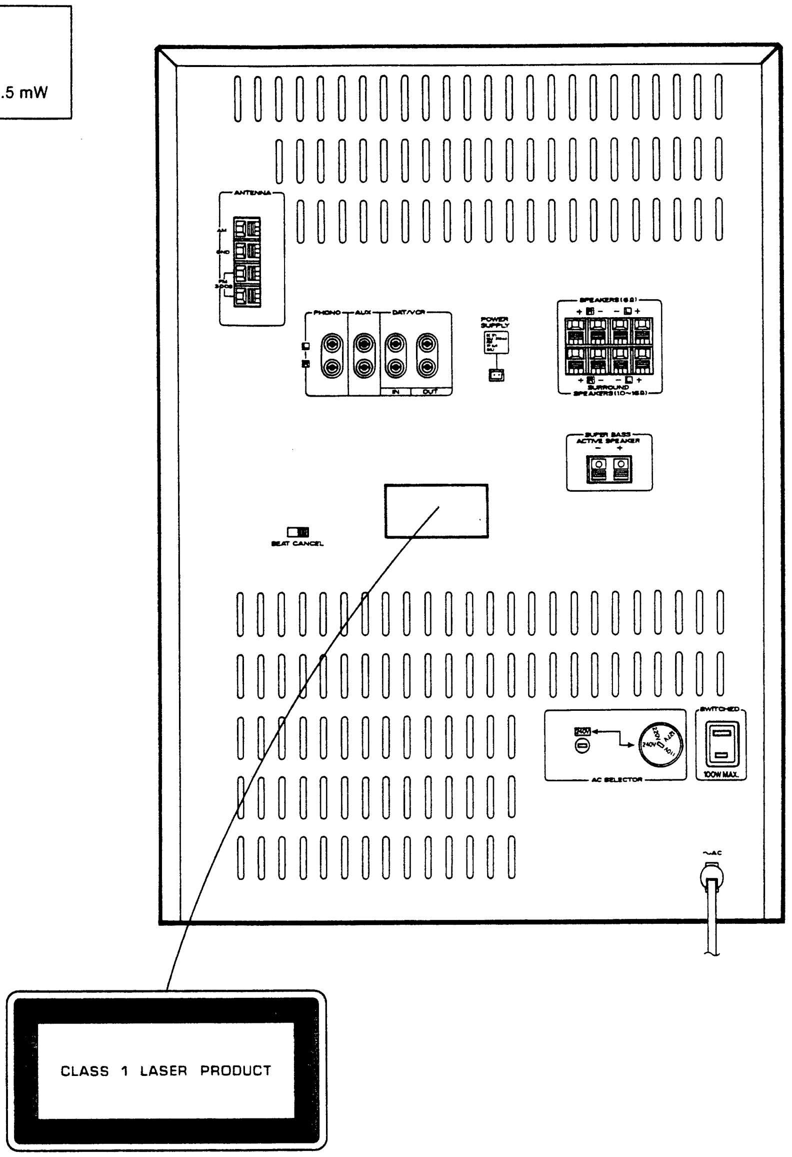
SAFETY CERTIFICATION

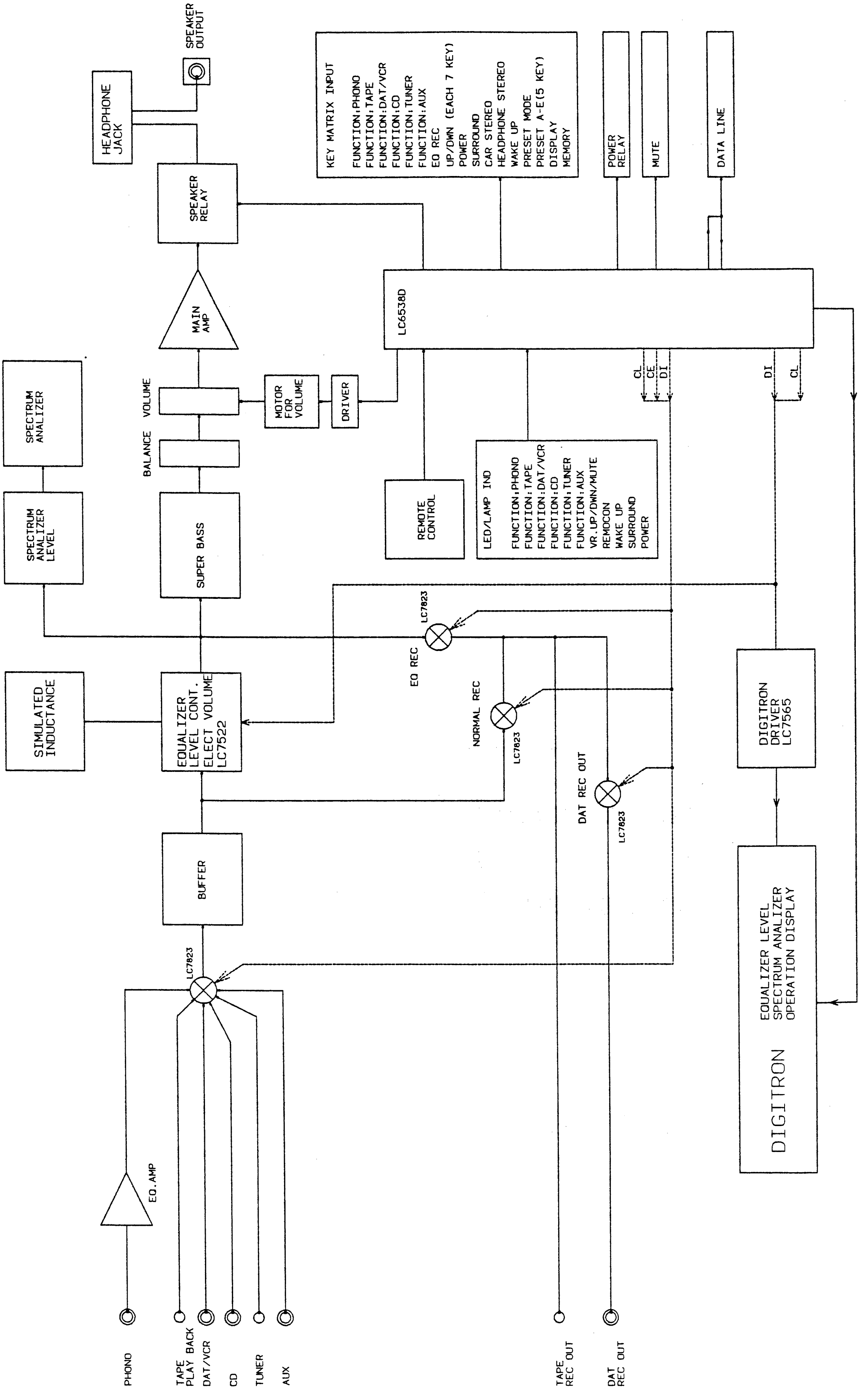
Laser Diode Properties
Material: Ga-Al-As
Wavelength: 755 ~ 815 nm (25°C)
Laser Output: Continuous Wave max. 0.5 mW


ANTENNA
PHONO
AUX
DAT/VCR
IN
OUT
POWER SUPPLY
SPEAKERS
SURROUND SPEAKERS
SUPER BASS ACTIVE SPEAKER
BEAT CANCEL
AC SELECTOR
SWITCHED
100W MAX.
~AC
CLASS 1 LASER PRODUCT

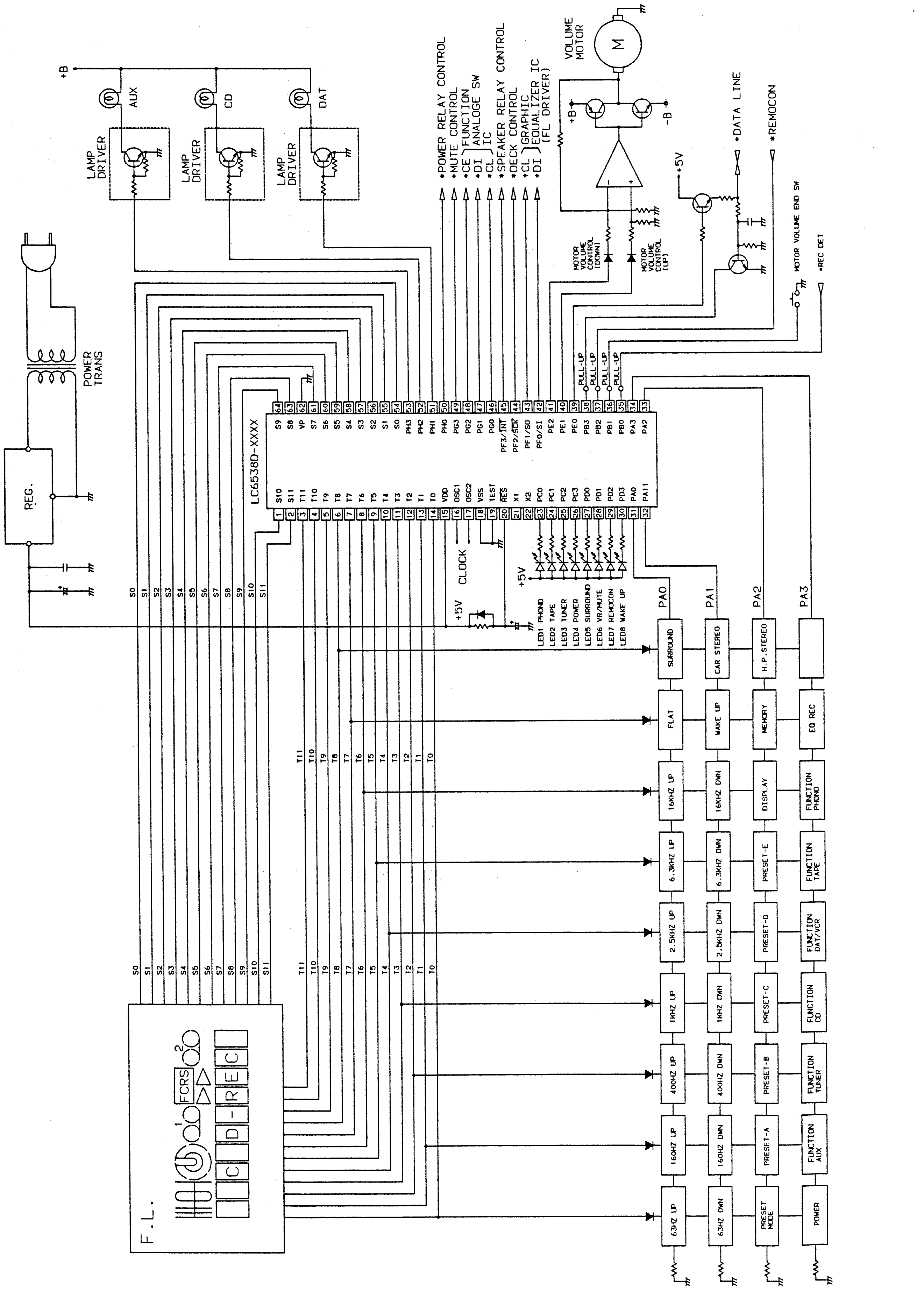
CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE UNIT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT QUALIFIED SERVICE PERSONNEL.

BLOCK DIAGRAM (Main Unit Section)


SPEAKER OUTPUT
HEADPHONE JACK
SPEAKER RELAY
MAIN AMP
VOLUME
BALANCE
MOTOR FOR VOLUME
DRIVER
SUPER BASS
SPECTRUM ANALIZER
SPECTRUM ANALIZER LEVEL
SIMULATED INDUCTANCE
EQUALIZER LEVEL CONT. ELECT VOLUME LC7522
BUFFER
LC7823
EQ.AMP
PHONO
TAPE PLAY BACK
DAT/VCR
CD
TUNER
AUX
TAPE REC OUT
DAT REC OUT
EQ REC
LC7823
NORMAL REC
LC7823
DAT REC OUT
LC7823
KEY MATRIX INPUT
FUNCTION:PHONO
FUNCTION:TAPE
FUNCTION:DAT/VCR
FUNCTION:CD
FUNCTION:TUNER
FUNCTION:AUX
EQ REC
UP/DWN (EACH 7 KEY)
POWER
SURROUND
CAR STEREO
HEADPHONE STEREO
WAKE UP
PRESET MODE
PRESET A-E(5 KEY)
DISPLAY
MEMORY
POWER RELAY
MUTE
DATA LINE
LC6538D
CL
CE
DI
DI
CL
REMOTE CONTROL
LED/LAMP IND
FUNCTION:PHONO
FUNCTION:TAPE
FUNCTION:DAT/VCR
FUNCTION:CD
FUNCTION:TUNER
FUNCTION:AUX
VR.UP/DWN/MUTE
REMOCON
WAKE UP
SURROUND
POWER
DIGITRON DRIVER LC7565
DIGITRON
EQUALIZER LEVEL
SPECTRUM ANALIZER
OPERATION DISPLAY

BLOCK DIAGRAM (M-CON System Control)

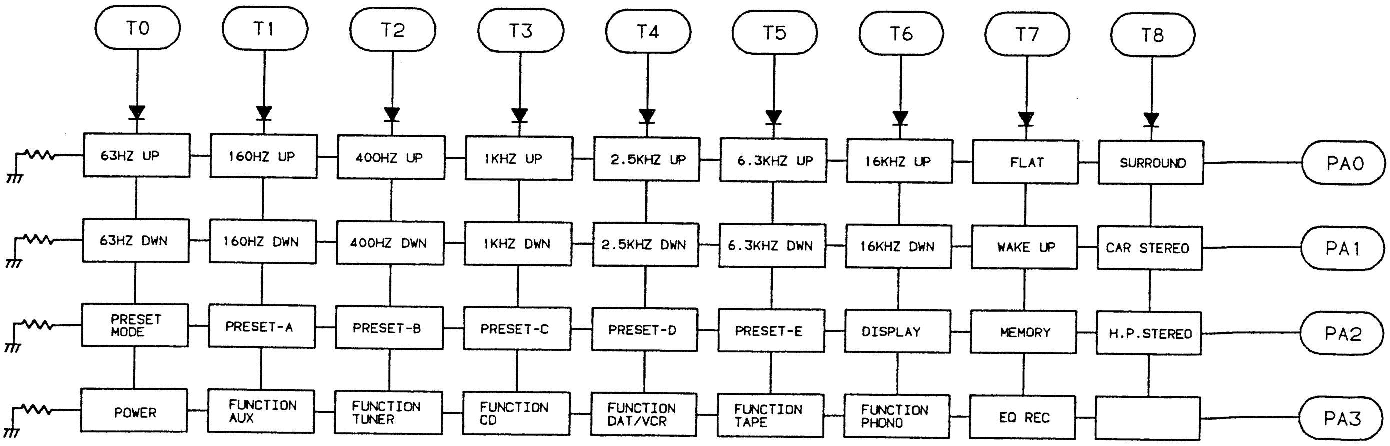

+B
AUX
CD
DAT
LAMP DRIVER
LAMP DRIVER
LAMP DRIVER
POWER TRANS
REG.
LC6538D-XXXX
S9 S8 VP S7 S6 S5 S4 S3 S2 S1 S0 PH3 PH2 PH1 PH0 PG3 PG2 PG1 PG0 PF3/INT PF2/SCK PF1/SO PF0/SI PE2 PE1 PE0 PB3 PB2 PB1 PB0 PA3 PA2
S10 S11 T11 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 T0 VDD OSC1 OSC2 VSS TEST RES X1 X2 PC0 PC1 PC2 PC3 PD0 PD1 PD2 PD3 PA0 PA11
*POWER RELAY CONTROL
*MUTE CONTROL
*CE FUNCTION
*DI ANALOGE SW
*CL IC
*SPEAKER RELAY CONTROL
*DECK CONTROL
*CL GRAPHIC
*DI EQUALIZER IC
(FL DRIVER)
VOLUME MOTOR
M
+B
-B
MOTOR VOLUME CONTROL (DOWN)
MOTOR VOLUME CONTROL (UP)
+5V
*DATA LINE
*REMOCON
MOTOR VOLUME END SW
*REC DET
PULL-UP
PULL-UP
PULL-UP
PULL-UP
CLOCK
+5V
+5V
LED1 PHONO
LED2 TAPE
LED3 TUNER
LED4 POWER
LED5 SURROUND
LED6 VR/MUTE
LED7 REMOCON
LED8 WAKE UP
PA0
PA1
PA2
PA3
S0 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11
T11 T10 T9 T8 T7 T6 T5 T4 T3 T2 T1 T0
SURROUND
CAR STEREO
H.P.STEREO
FLAT
WAKE UP
MEMORY
EQ REC
16KHZ UP
16KHZ DWN
DISPLAY
FUNCTION PHONO
6.3KHZ UP
6.3KHZ DWN
PRESET-E
FUNCTION TAPE
2.5KHZ UP
2.5KHZ DWN
PRESET-D
FUNCTION DAT/VCR
1KHZ UP
1KHZ DWN
PRESET-C
FUNCTION CD
400HZ UP
400HZ DWN
PRESET-B
FUNCTION TUNER
160HZ UP
160HZ DWN
PRESET-A
FUNCTION AUX
63HZ UP
63HZ DWN
PRESET MODE
POWER
F.L.
FCRS
1
2
C D - R E C

M-CON PORT ASSIGNMENTS (LC6538D)

Pin No.	Name	I/O	Active	Function
1	S10	OUT	H	FL Indicator
2	S11	OUT	H	FL Indicator
3	T11	OUT	H	FL Indicator
4	T10	OUT	H	FL Indicator
5	T9	OUT	H	FL Indicator
6	T8	OUT	H	FL/KEY MATRIX TIMING OUT
7	T7	OUT	H	FL/KEY MATRIX TIMING OUT
8	T6	OUT	H	FL/KEY MATRIX TIMING OUT
9	T5	OUT	H	FL/KEY MATRIX TIMING OUT
10	T4	OUT	H	FL/KEY MATRIX TIMING OUT
11	T3	OUT	H	FL/KEY MATRIX TIMING OUT
12	T2	OUT	H	FL/KEY MATRIX TIMING OUT
13	T1	OUT	H	FL/KEY MATRIX TIMING OUT
14	T0	OUT	H	FL/KEY MATRIX TIMING OUT
15	VDD			
16	OSC1			
17	OSC2			
18	VSS			
19	TEST			
20	RESET			
21	X1			
22	X2			

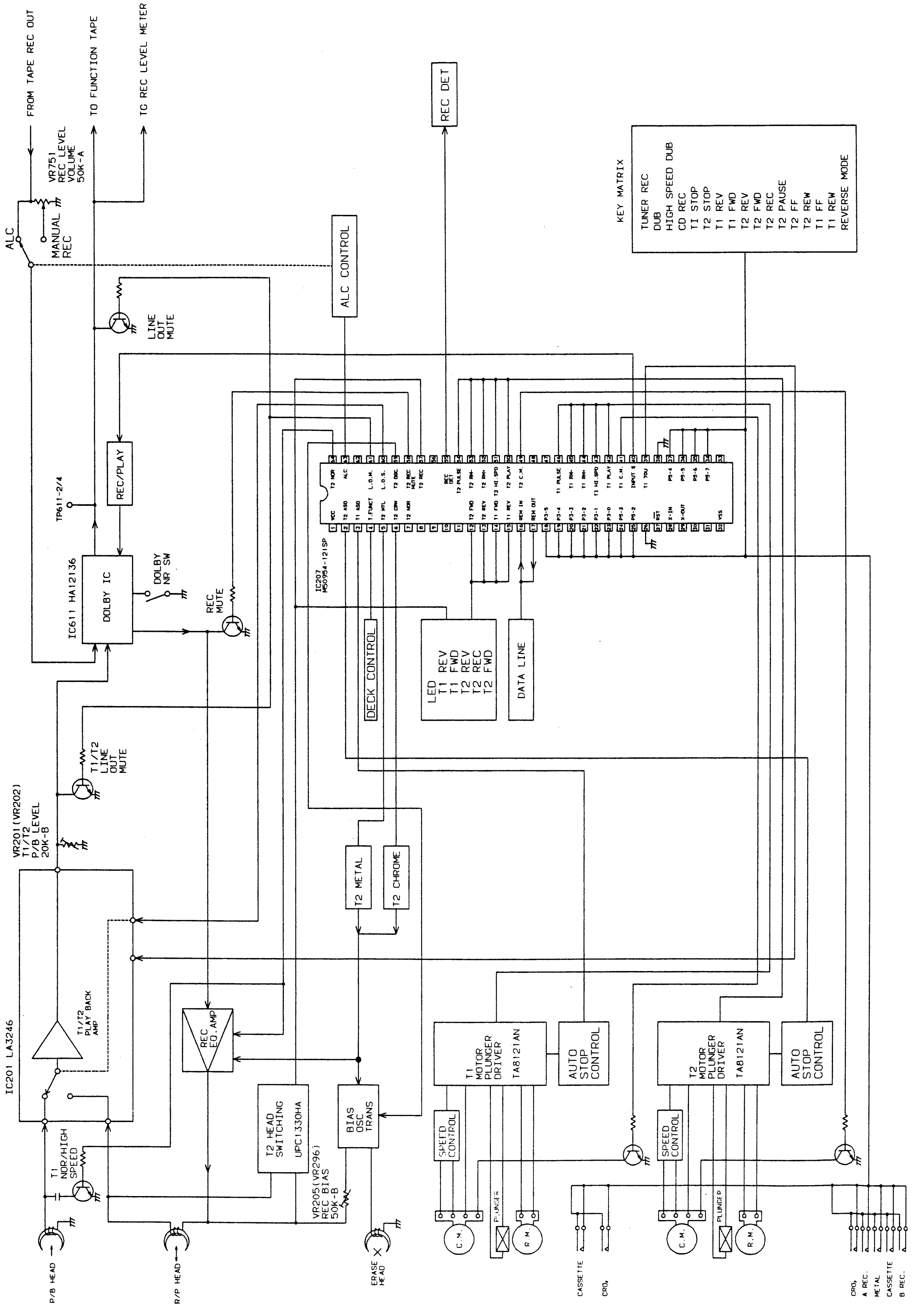
Pin No.	Name	I/O	Active	Function
23	PC0	OUT	L	PHONO Ind. OUT
24	PC1	OUT	L	TAPE Ind. OUT
25	PC2	OUT	L	TUNER Ind. OUT
26	PC3	OUT	L	POWER Ind. OUT
27	PD0	OUT	L	SURROUND Ind. OUT
28	PD1	OUT	L	VR/MUTE Ind. OUT
29	PD2	OUT	L	REMOCON Ind. OUT
30	PD3	OUT	H	WAKE UP Ind. OUT
31	PA0	O	H	KEY MATRIX Input
32	PA1	IN	H	KEY MATRIX Input
33	PA2	IN	H	KEY MATRIX Input
34	PA3	IN	H	KEY MATRIX Input
35	PB0	IN	L	REC Condition Detection
36	PB1	IN	L	Motor Stop Detection
37	PB2	IN	L	Remocon Receiver
38	PB3	IN	L	Data Receiver
39	PE0	OUT	H	Data Transmit
40	PE1	OUT	H	Volume UP OUT
41	PE2	OUT	H	Volume Down OUT
42	PF0	OUT	H	(LC7522,LC7565) DATA OUTPUT
43	PF1	OUT	H	(LC7522,LC7565) CLOCK OUT
44	PF2	OUT	H	MANUAL DUBBING
45	PF3	OUT	H	SP Relay Control
46	PG0	OUT	H	(LC7823) CLOCK
47	PG1	OUT	H	(LC7823) DATA

KEY MATRIX (FUNCTION/EQ REC KEY)



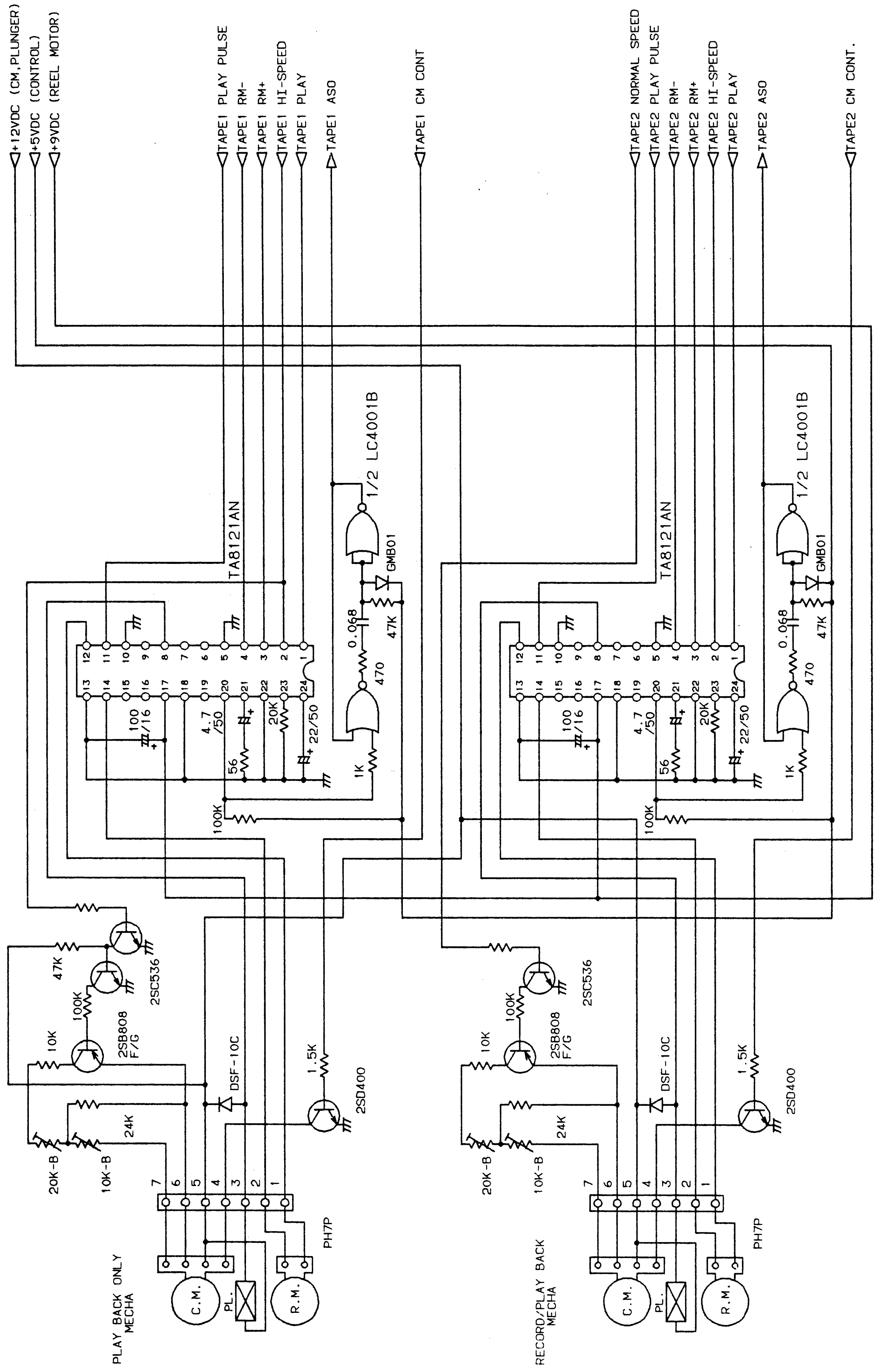
	T0	T1	T2	T3	T4	T5	T6	T7	T8
PA0	63HZ UP	160HZ UP	400HZ UP	1KHZ UP	2.5KHZ UP	6.3KHZ UP	16KHZ UP	FLAT	SURROUND
PA1	63HZ DWN	160HZ DWN	400HZ DWN	1KHZ DWN	2.5KHZ DWN	6.3KHZ DWN	16KHZ DWN	WAKE UP	CAR STEREO
PA2	PRESET MODE	PRESET-A	PRESET-B	PRESET-C	PRESET-D	PRESET-E	DISPLAY	MEMORY	H.P.STEREO
PA3	POWER	FUNCTION AUX	FUNCTION TUNER	FUNCTION CD	FUNCTION DAT/VCR	FUNCTION TAPE	FUNCTION PHONO	EQ REC	

BLOCK DIAGRAM (Deck Function Section)

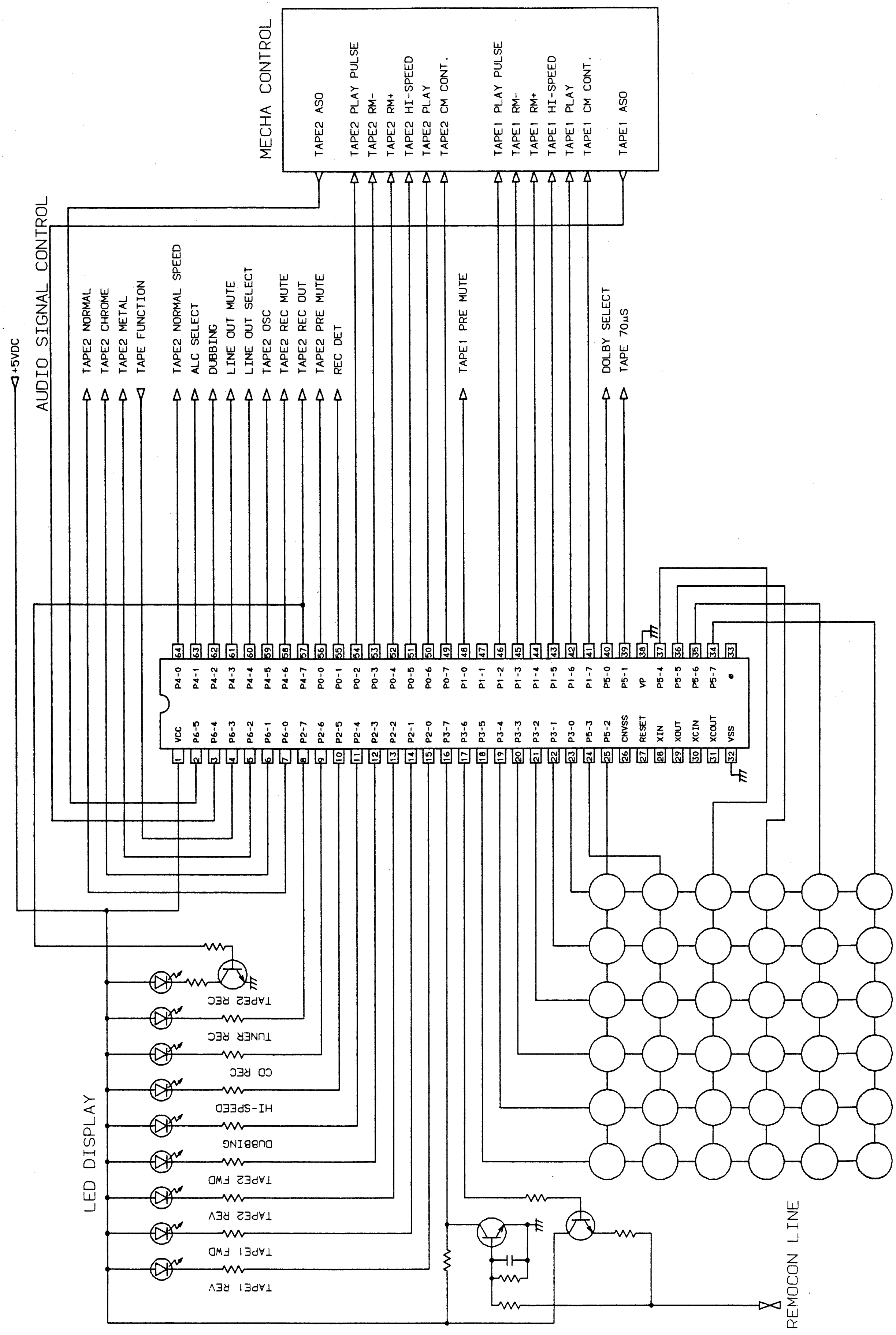


FROM TAPE REC OUT
TO FUNCTION TAPE
TO REC LEVEL METER
VR751 REC LEVEL VOLUME 50K-A
ALC
MANUAL REC
ALC CONTROL
REC DET
KEY MATRIX
TUNER REC
DUB
HIGH SPEED DUB
CD REC
T1 STOP
T2 STOP
T1 REV
T1 FWD
T2 REV
T2 FWD
T2 REC
T2 PAUSE
T2 FF
T2 REW
T1 FF
T1 REW
REVERSE MODE
LINE OUT MUTE
REC/PLAY
TP611-2/4
IC611 HA12136
DOLBY IC
DOLBY NR SW
REC MUTE
IC207 M50954-121SP
1 VCC
2 T2 ASO
3 T1 ASO
4 T.FUNCT
5 T2 MTL
6 T2 CRM
7 T2 NOR
8
9
10
11
12 T2 FWD
13 T2 REV
14 T1 FWD
15 T1 REV
16 REM IN
17 REM OUT
18 P3-5
19 P3-4
20 P3-3
21 P3-2
22 P3-1
23 P3-0
24 P5-3
25 P5-2
26
27 RST
28 X-IN
29 X-OUT
30
31
32 VSS
64 T2 NOR
63 ALC
62
61 L.O.M.
60 L.O.S.
59 T2 OSC
58 T2 REC MUTE
57 T2 REC
56
55 REC DET
54 T2 PULSE
53 T2 RM-
52 T2 RM+
51 T2 HI.SPD
50 T2 PLAY
49 T2 C.M.
48
47
46 T1 PULSE
45 T1 RM-
44 T1 RM+
43 T1 HI.SPD
42 T1 PLAY
41 T1 C.M.
40 INPUT S
39 T1 TOU
38
37 P5-4
36 P5-5
35 P5-6
34 P5-7
33
DECK CONTROL
LED
T1 REV
T1 FWD
T2 REV
T2 REC
T2 FWD
DATA LINE
T1/T2 LINE OUT MUTE
VR201(VR202) T1/T2 P/B LEVEL 20K-B
T2 METAL
T2 CHROME
IC201 LA3246
T1/T2 PLAY BACK AMP
REC EQ.AMP
T2 HEAD SWITCHING UPC1330HA
BIAS OSC TRANS
T1 NOR/HIGH SPEED
VR205(VR296) REC BIAS 50K-B
P/B HEAD
R/P HEAD
ERASE HEAD
T1 MOTOR PLUNGER DRIVER TA8121AN
AUTO STOP CONTROL
SPEED CONTROL
C.M.
PLUNGER
R.M.
CASSETTE
CrO₂
T2 MOTOR PLUNGER DRIVER TA8121AN
AUTO STOP CONTROL
SPEED CONTROL
C.M.
PLUNGER
R.M.
CrO₂
A REC.
METAL
CASSETTE
B REC.

SYSTEM BLOCK DIAGRAM (Deck Mechanism Control Section)


+12VDC (CM,PLUNGER)
+5VDC (CONTROL)
+9VDC (REEL MOTOR)
TAPE1 PLAY PULSE
TAPE1 RM-
TAPE1 RM+
TAPE1 HI-SPEED
TAPE1 PLAY
TAPE1 ASO
TAPE1 CM CONT
TAPE2 NORMAL SPEED
TAPE2 PLAY PULSE
TAPE2 RM-
TAPE2 RM+
TAPE2 HI-SPEED
TAPE2 PLAY
TAPE2 ASO
TAPE2 CM CONT.
TA8121AN
1/2 LC4001B
GMB01
0.068
47K
470
1K
100/16
4.7/50
20K
22/50
56
100K
47K
2SC536
100K
10K
2SB808 F/G
DSF-10C
1.5K
2SD400
24K
20K-B
10K-B
PH7P
C.M.
PL.
R.M.
PLAY BACK ONLY MECHA
RECORD/PLAY BACK MECHA

SYSTEM BLOCK DIAGRAM (Mechanism Control Section)


MECHA CONTROL
TAPE2 ASO
TAPE2 PLAY PULSE
TAPE2 RM-
TAPE2 RM+
TAPE2 HI-SPEED
TAPE2 PLAY
TAPE2 CM CONT.
TAPE1 PLAY PULSE
TAPE1 RM-
TAPE1 RM+
TAPE1 HI-SPEED
TAPE1 PLAY
TAPE1 CM CONT.
TAPE1 ASO
AUDIO SIGNAL CONTROL
+5VDC
TAPE2 NORMAL
TAPE2 CHROME
TAPE2 METAL
TAPE FUNCTION
TAPE2 NORMAL SPEED
ALC SELECT
DUBBING
LINE OUT MUTE
LINE OUT SELECT
TAPE2 OSC
TAPE2 REC MUTE
TAPE2 REC OUT
TAPE2 PRE MUTE
REC DET
TAPE1 PRE MUTE
DOLBY SELECT
TAPE 70μS
64 P4-0
63 P4-1
62 P4-2
61 P4-3
60 P4-4
59 P4-5
58 P4-6
57 P4-7
56 P0-0
55 P0-1
54 P0-2
53 P0-3
52 P0-4
51 P0-5
50 P0-6
49 P0-7
48 P1-0
47 P1-1
46 P1-2
45 P1-3
44 P1-4
43 P1-5
42 P1-6
41 P1-7
40 P5-0
39 P5-1
38 VP
37 P5-4
36 P5-5
35 P6-6
34 P5-7
33 ø
1 VCC
2 P6-5
3 P6-4
4 P6-3
5 P6-2
6 P6-1
7 P6-0
8 P2-7
9 P2-6
10 P2-5
11 P2-4
12 P2-3
13 P2-2
14 P2-1
15 P2-0
16 P3-7
17 P3-6
18 P3-5
19 P3-4
20 P3-3
21 P3-2
22 P3-1
23 P3-0
24 P5-3
25 P5-2
26 CNVSS
27 RESET
28 XIN
29 XOUT
30 XCIN
31 XCOUT
32 VSS
LED DISPLAY
TAPE2 REC
TUNER REC
CD REC
HI-SPEED
DUBBING
TAPE2 FWD
TAPE2 REV
TAPE1 FWD
TAPE1 REV
KEY MATRIX
REMOCON LINE

M-CON PORT ASSIGNMENTS (M50954)

Pin No.	Name	I/O	Active	Function
56	P0$_0$	O	H	TAPE2 PRE MUTE
55	P0$_1$	O	H	REC DET.
54	P0$_2$	O	H	TAPE2 PLAY PULSE
53	P0$_3$	O	H	TAPE2 RM −
52	P0$_4$	O	H	TAPE2 RM +
51	P0$_5$	O	H	TAPE2 HI-SPEED
50	P0$_6$	O	H	TAPE2 PLAY
49	P0$_7$	O	H	TAPE2 CM CONT
48	P1$_0$	O	H	TAPE1 PRE MUTE
47	P1$_1$			
46	P1$_2$	O	H	TAPE1 PLAY PULSE
45	P1$_3$	O	H	TAPE1 RM −
44	P1$_4$	O	H	TAPE1 RM +
43	P1$_5$	O	H	TAPE1 HI-SPEED
42	P1$_6$	O	H	TAPE1 PLAY
41	P1$_7$	O	H	TAPE1 CM CONT.
15	P2$_0$	O	L	TAPE1 REV. IND.
14	P2$_1$	O	L	TAPE1 FWD. IND.
13	P2$_2$	O	L	TAPE2 REV. IND.
12	P2$_3$	O	L	TAPE2 FWD. IND.
11	P2$_4$	O	L	DUBBING IND.
10	P2$_5$	O	L	HIGH-SPEED IND.
9	P2$_6$	O	L	CD REC IND.
8	P2$_7$	O	L	TUNER REC IND.
23	P3$_0$	O	L	KEY OUT 1
22	P3$_1$	O	L	KEY OUT 2
21	P3$_2$	O	L	KEY OUT 3
20	P3$_3$	O	L	KEY OUT 4
19	P3$_4$	O	L	KEY OUT 5
18	P3$_5$	O	L	KEY OUT 6
17	P3$_6$	O	H	REMOCON OUT
16	P3$_7$	I	L	REMOCON IN
64	P4$_0$	O	H	TAPE2 NORMAL
63	P4$_1$	O	H	ALC SELECT
62	P4$_2$	O	H	DUBBING
61	P4$_3$	O	H	LINE OUT MUTE
60	P4$_4$	O	H	LINE OUT SELECT
59	P4$_5$	O	H	TAPE2 OSC
58	P4$_6$	O	H	TAPE2 REC MUTE
57	P4$_7$	O	H	TAPE2 REC OUT
40	P5$_0$	O	H	DOLBY SELECT
39	P5$_1$	O	H	TAPE 70μS
25	P5$_2$	I	L	KEY IN 1
24	P5$_3$	I	L	KEY IN 2
37	P5$_4$	I	L	KEY IN 3
36	P5$_5$	I	L	KEY IN 4
35	P5$_6$	I	L	KEY IN 5
34	P5$_7$	I	L	KEY IN 6
7	P6$_0$	O	H	TAPE2 NORMAL
6	P6$_1$	O	H	TAPE2 CHROME
5	P6$_2$	O	H	TAPE2 METAL
4	P6$_3$	I	H	TAPE FUNCTION
3	P6$_4$	I	H	TAPE1 ASO
2	P6$_5$	I	H	TAPE2 ASO

CD PLAYER ADJUSTMENT PROCEDURES

BEFORE CHECKING OR ADJUSTING CD PLAYER

1. Procedures for all adjustments for the CD player from start to finish are described below.
2. If no problems are found after each item is checked when the pick-up is replaced, there is no need to adjust all items again.

SETTING OF INITIAL POSITION OF VOLUME

1. Set the potentiometer to the initial positions listed below:

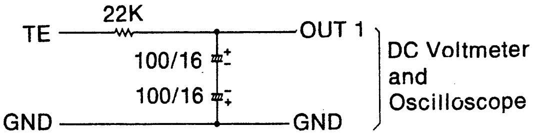
P51 (FOCUS GAIN)	Mechanical Center
P52 (E/F BALANCE)	Mechanical Center
P53 (TRACKING GAIN)	Mechanical Center
P54 (KICK GAIN)	Mechanical Center
P55 (TRACKING OFFSET)	Mechanical Center

FREE RUN FREQUENCY ADJUSTMENT

1. Connect the frequency counter to **PCK** test terminal (TP3-1) pin and to **GND.** (Use a 10:1 probe.)
2. Short the **DSP OFF** test terminal (TP5-2) pin to **GND** (TP5-3) pin.
3. Push the POWER button to switch the power on and push the STOP button.
4. Adjust the PLL Coil (T52) using a plastic screwdriver until the frequency counter indicator reads 4.3218MHz ±5kHz.

E/F BALANCE ADJUSTMENT

1. Place the test disc (Modern Wave Ⅱ) on the Disc Tray, and play the fourth item on the disc.
2. Short the **TEST** test terminal (TP5-1) pin to **GND**, and **TROF** test terminal (TP2-5) pin to **GND** to turn tracking servo OFF.
3. Connect a DC Voltmeter and an oscilloscope via the low-pass filter like that shown in the illustration below to the **TE** (tracking error) test terminal (TP2-3) pin.

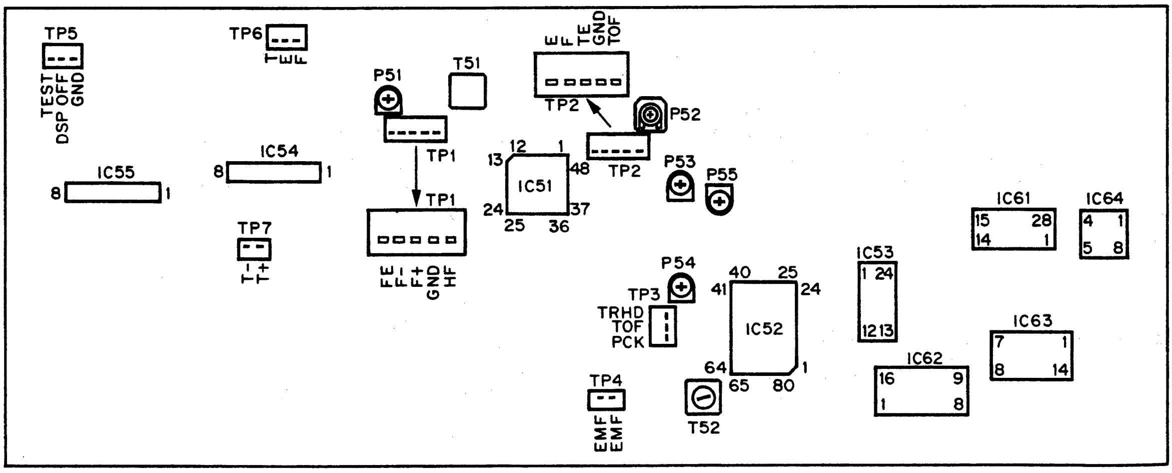

TE
22K
OUT 1
100/16
100/16
GND
GND
DC Voltmeter and Oscilloscope

Measurement circuit

4. Adjust the potentiometer (P52) so that the DC Voltmeter reading is 0V±50mV (oscilloscope waveform is symmetric to + and − about the zero level).

CD PLAYER ADJUSTMENT POINTS

(TOP VIEW)

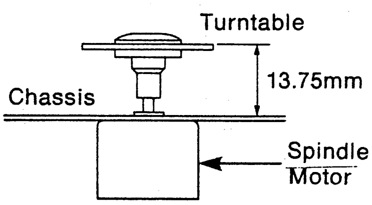

TP5
TEST
DSP OFF
GND
TP6
T
E
F
P51
T51
E
F
TE
GND
TOF
TP2
P52
TP1
TP1
12
1
13
48
IC51
24
37
25
36
TP2
P53
P55
IC55
8
1
IC54
8
1
TP7
T-
T+
FE
F-
F+
GND
HF
P54
TP3
TRHD
TOF
PCK
40
25
41
24
IC52
64
1
65
80
TP4
EMF
EMF
T52
IC53
1
24
12
13
IC62
16
9
1
8
IC61
15
28
14
1
IC64
4
1
5
8
IC63
7
1
8
14

CD PLAYER ADJUSTMENT PROCEDURES (Continued)

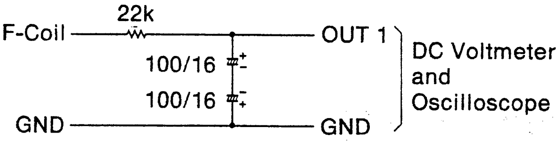
ADJUSTMENT OF TURNTABLE HEIGHT

This adjustment must be performed when the Spindle Motor is replaced.

1. The turntable should be mounted so that its upper surface is 13.75mm±0.1mm above the surface of the chassis.



2. Place the test disc (Modern Wave Ⅱ) on the turntable.
3. Connect a DC Voltmeter and an oscilloscope via the low-pass filter shown below to the **FOCUS COIL** test terminal (TP6-3) pin.

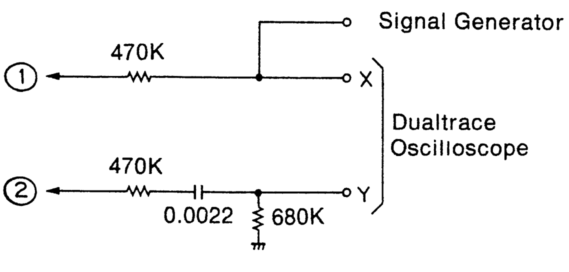


Measurement circuit

4. Push the POWER button to switch the power on and PLAY the First and Last Track No. on the disc.
5. If the DC Voltmeter reading is not in the ranges 0V±0.2V for inner tracks and 0V±0.35V for outer tracks, then the turntable height must be readjusted. Raise the turntable higher if the DC Voltmeter indicator is on the plus (+) side, and lower it if it is on the minus (−) side.
(With this circuit 1V represents movement of approximately 0.55mm ~ 0.65mm.)

ADJUSTMENT OF FOCUS/TRACKING GAIN

The measurement circuit diagrammed below must be used in order to adjust focus gain and tracking gain correctly.



Measurement circuit

FOCUS GAIN ADJUSTMENT

1. Apply the potentiometer (P51) to the position of mechanical center position, and place the test disc (Modern Wave Ⅱ) on the Disc Tray.
2. Connect the **F** minus (−) test terminal (TP1-2) pin to measurement circuit No.1 terminal.
3. Connect the **F** plus (+) test terminal (TP1-3) pin to measurement circuit No.2 terminal.
4. Push the POWER button to switch the power on and PLAY the first item on the test disc. Now apply a signal of 920Hz and 0.6Vrms from the signal generator to the measurement circuit.
5. Set the oscilloscope to X-Y operation, and while observing the lissajous waveform adjust the potentiometer (P51) to the point where the phase difference is 90° as shown in Fig. 1 below.

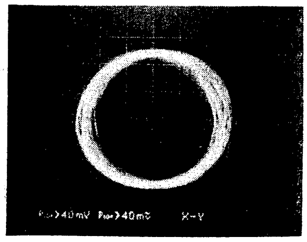


Fig. 1

TRACKING GAIN ADJUSTMENT

1. Apply the potentiometer (P53) to the position of mechanical center position, and place the test disc (Modern Wave Ⅱ) on the Disc Tray.
2. Connect the **T** minus (−) test terminal (TP7-1) pin to measurement circuit No.1 terminal.
3. Connect the **T** plus (+) test terminal (TP7-2) pin to measurement circuit No.2 terminal.
4. Push the POWER button to switch the power on and PLAY the first item on the test disc. Now apply a signal of 1550Hz and 0.3Vrms from the signal generator to the measurement circuit.
5. Set the oscilloscope to X-Y operation, and while observing the lissajous waveform adjust the potentiometer (P53) to the point where the phase difference is 90° as shown in Fig. 1 above.

NOTE:
If these two adjustments are performed, the TRACKING OFFSET must also be adjusted.

TRACKING OFFSET ADJUSTMENT

1. Push the POWER button to switch the power on and push the STOP button.
2. Connect a DC Voltmeter to the **T** (tracking coil) test terminal (TP6-1) pin and short the **TOF** test terminal (TP3-2) pin to **GND.**
3. In this condition check that the DC Voltmeter indicator is in the range 0mV±50mV, and adjust the potentiometer (P55) if it is not.

NOTE:
Perform this adjustment once again after adjusting the E/F BALANCE and TRACKING GAIN signals.

KICK GAIN ADJUSTMENT

1. Place the test disc (Modern Wave Ⅱ) on the Disc Tray.
2. Set the oscilloscope to NORMAL TRIG., set the EXT. TRIG. pin to external trigger, and input the trigger from **TRHD** test terminal (TP3-3) pin to the oscilloscope.
3. Next connect the **HF** test terminal (TP1-5) pin to Channel 1 of the oscilloscope, and connect the **TE** test terminal (TP2-3) pin to Channel 2.
4. Push the POWER button to switch the power on and PLAY the first item on the test disc, and the push the PAUSE button. Now observe the waveforms for **HF** and **TE** with triggers applied from the **TRHD** test terminal (TP3-3) pin. At this point, adjust the potentiometer (P54) so that a kick pulse waveform of about 1 to 1.3 tracks as shown in Fig. 2 below is obtained.

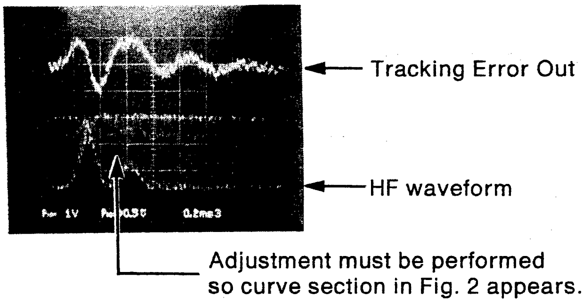
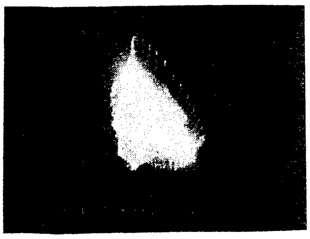


Fig. 2

DIFFRACTION GRID ADJUSTMENT

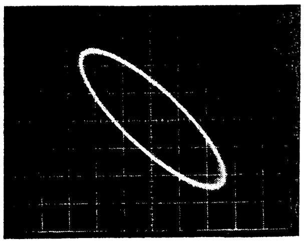
Diffraction grating adjustment is performed for a single pick-up, so if the following checks are performed adjustment is unnecessary.

1. Place the test disc (Modern Wave Ⅱ) on the disc Tray, and play the fourth item on the disc. Shout the **TEST** terminal (TP5-2) pin to **GND**, and **TOF** test terminal (TP2-5) pin to GND to turn tracking servo OFF.
2. Next connect **E** test terminal (TP2-1) pin to channel 1 of the oscilloscope, and connect **F** test terminal (TP2-2) pin to channel 2.
3. Set the oscilloscope to X-Y operation, and while of serving the lissajous wave form check the wave form is a straight line with a phase difference of 180° as shown in Fig. 3.



(Optimum Figure)

Fig. 3



(Limiting Figure)

Fig. 4

4. The wave form shown in Figure 3 shows the optimum condition. Adjustment range of diffraction grating will be effective range if it shows within the range of ±30° as shown in Fig. 4.
5. Next, push the PLAY button, and set the oscilloscope in the DUAL MODE so that both **E** and **F** outputs can be seen. Set the DISPLAY TIME to 5μs. Now, adjustment is complete if the waveforms shown below in Fig. 5 (Channel 1 trigger) are obtained.

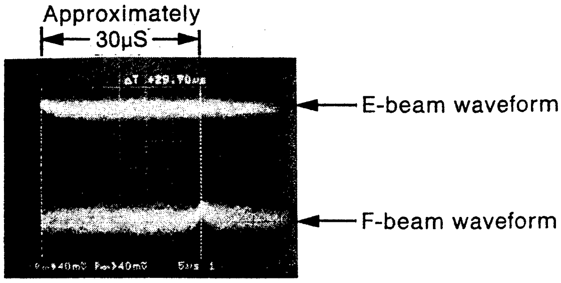


Fig. 5

CAUTION ON RF ADJUSTMENT

This model uses a microprocessor for memory preset control for the various bands.
This function has been used to preset frequency points for the different bands to permit adjustment and make it possible to check the function of the microprocessor. To use this supplemental function, ground initialize point jumper wire JM915 on the TUNER FRONT P.C.Board for 1 second before beginning adjustment. The following table shows the initially preset frequencies.

NOTE: If the AM tuning cannot be obtained properly, then unsoldering the Step Frequency adjust point on the TUNER FRONT P.C.Board (located near the connector IC901). 10kHz step will be set (factory adjusted to 9kHz position).

Band	Memory					
	1	2	3	4	5	6
FM-1	87.5MHz	108MHz	88MHz	98MHz	108MHz	90MHz
AM(9kHz)	531kHz	1602kHz	603kHz	1404kHz	999kHz	522kHz
AM(10kHz)	520kHz	1710kHz	600kHz	1400kHz	1000kHz	520kHz

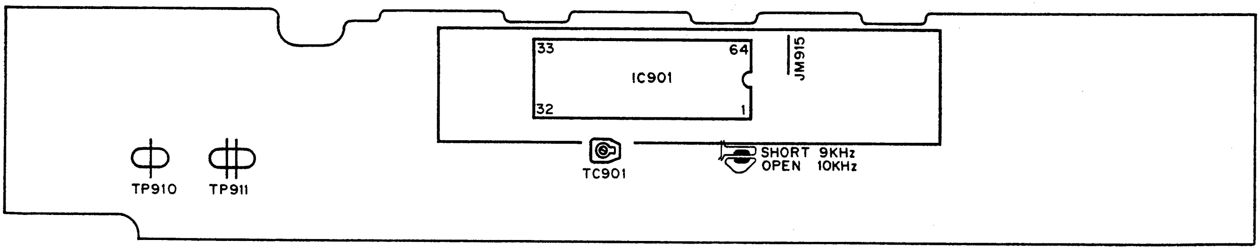
SYSTEM CLOCK ADJUSTMENT

Since this adjustment sets standard time for the total system, be sure to adjust before operation.

1. Connect the TP911 to the ground (The FL indicator goes out.)
2. Connect the Frequency Counter between the TP910 and ground.
3. Adjust the TC901 until the Frequency Counter reads 65.536kHz ±0.1Hz.
   (Avoid the minus " – " disparity as much as possible in case the clock lags behind.)
4. After the adjustment, Disconnect the TP911 from the ground and the original mode is returned.

TUNER FRONT P.C.BOARD ADJUSTMENT POINTS

(BOTTOM VIEW)



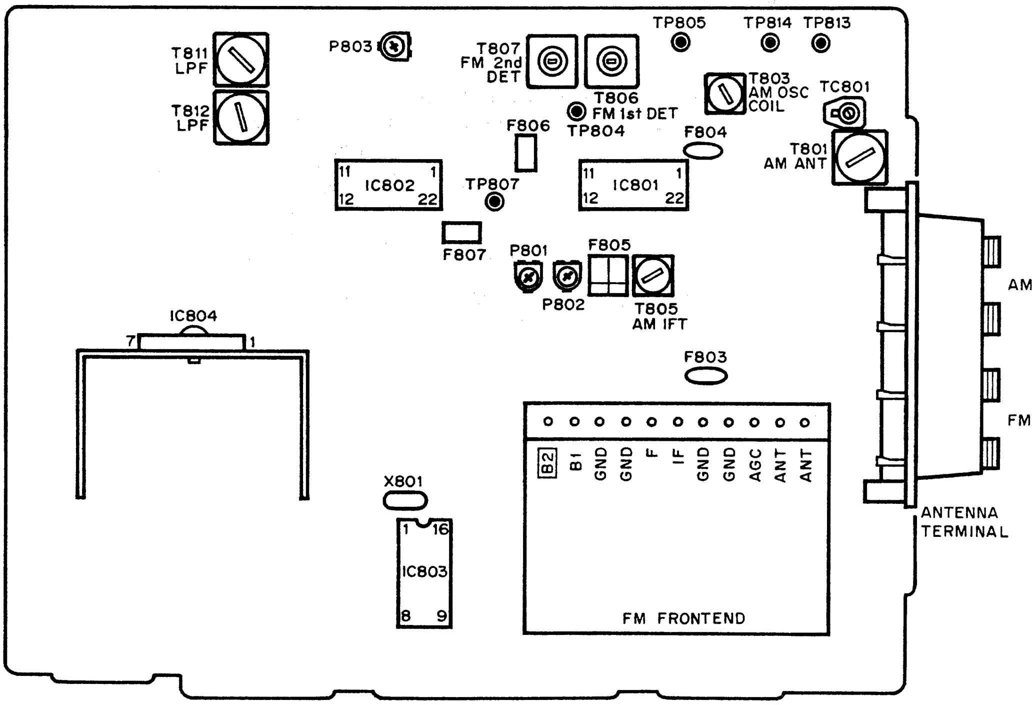
FM TUNER ALIGNMENT

FM ALIGNMENT – FUNCTION switch to FM ST/MUTE position.
Note: It is almost unnecessary to adjust coil in Front End as perfectly adjusted

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. CENTER VOLTAGE& DETECTOR ADJUSTMENT (MINIMUM T.H.D.)	Connect FM RF Signal Generator through FM Dummy Antenna to FM Antenna terminals. Set Generator to 98MHz±2kHz. Modulate with 1kHz to Provide ±75kHz deviation. Adjust attenuator output level to 60dBμV.	Set Preset STATION button to "4" position. Set to 98MHz. Set FM MODE switch to MONO.	Connect DC Voltmeter across TP804 and TP805.	Adjust FM DET 1st Coil (T806) until DC Voltmeter reads 0V ±50mV.
			Connect Harmonic Distortion Analyzer to DAT/VCR OUT.	Adjust FM DET 2nd Coil (T807) for minimum gain and best linearity.
Note: Repeat Step 1 (FM DET 1st Coil T806) and 2 (FM DET 2nd Coil T807) until optimum alignment is reached.				
2. FM AUTO STOP ADJUSTMENT	Same as above. Adjust attenuator output level to 20dBμV.	Same as above.	Front panel TUNED Indicator Display.	Set FM MODE Switch to ST/MUTE. Adjust P801 until the TUNED Indicator partly light up.
Note: Decrease the output level of ATT and confirm that the wave form disappears. Increase the output level of ATT again and confirm that the input level meets the specifications sufficiently when the wave form has appeared.				
3. FM STEREO SIGNAL SEPARATION CONTROL	Connect FM Stereo SG to FM Antenna terminals. Set Generator output level to 60dBμV at 98MHz stereo signal (1kHz-90%, Pilot-10%) from LEFT channel.	Same as above.	Connect AC VTVM and Oscilloscope. to (Right Channel) DAT/VCR OUT.	Adjust P803 for minimum output and checking the STEREO Indicator light up.
	Same as above for RIGHT channel.		Connect AC VTVM and Oscilloscope to (LEFT channel) DAT/VCR OUT.	

Use a screwdriver with plastic grip for all adjustments.

TUNER P.C.BOARD ADJUSTMENT POINTS
(TOP VIEW)


T811 LPF
T812 LPF
P803
T807 FM 2nd DET
T806 FM 1st DET
TP804
TP805
TP814
TP813
T803 AM OSC COIL
TC801
T801 AM ANT
F806
F804
IC802
TP807
IC801
F807
P801
F805
P802
T805 AM IFT
IC804
F803
X801
IC803
B2
B1
GND
GND
F
IF
GND
GND
AGC
ANT
ANT
FM FRONTEND
AM
FM
ANTENNA TERMINAL

AM TUNER ALIGNMENT

AM ALIGNMENT – FUNCTION switch to AM position.
Maintain generator output as low as possible for suitable indication.

Note: Perform this alignment after FM Tuner Alignment.

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect 450kHz Radio IF Genescope output to AM antenna terminal adjust attenuator output level to 70dBμV.	Position of non-interference Minimum Frequency.	Connect Radio IF Genescope input to TP807 and ground lead to chassis.	Adjust AM IFT (T805) for maximum gain and best symmetry. Keep signal low enough for noise on response
2. AM RF FREQUENCY COVER ALIGNMENT (1602kHz)	Do not connect generator.	Set Preset STATION button to "2" position. Set to 1602kHz.	Connect DC Voltmeter to B2(Front End) and ground lead to chassis.	Adjust AM OSC (T803) until DC Voltmeter reads 7.7V.
3. (531kHz)	Same as above.	Set Preset STATION button to "1" position. Set to 531kHz.	Same as above.	Check DC Voltmeter for Indication 0.9V ~ 1.4V.
Note: Repeat the adjustments in items 2 and 3. Then, confirm that each voltage becomes 1.2V to 7.7V at receiving frequency of 531kHz to 1602kHz. **(See Table 1)**				
4. AM RF TRACKING ALIGNMENT (603kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop antenna (Unit). Generator Setting to 603kHz or 1404kHz. Modulate with 400Hz (30 % modulation).	Set Preset STATION button to "3" position. Set to 603kHz.	Connect AC VTVM and Oscilloscope to DAT/VCR OUT.	Adjust AM ANT Coil (T801) for maximum gain output.
5. (1404kHz)		Change Preset STATION button to "4" position. Set to 1404kHz.	Same as above.	Adjust AM ANT Trimmer (TC801) for maximum gain output.
Note: Repeat the adjustments in Items 4 and 5. Then, confirm there is no tracking error.				
6. AM AUTO STOP SENSITIVITY ADJUSTMENT	Change generator setting to 990kHz and output level to 60dBμV/m.	Change DIGITAL Counter Display Set to 990kHz.	Front Panel TUNED Indicator Display.	Adjust P802 until the TUNED Indicator partly light up.

Use a screwdriver with plastic grip for all adjustments.

AM Frequency Cover Range
Tuning Voltage Value at B2 (On the FM Front End)
(Table 1)

	531kHz	1602kHz
Minimum	0.9V	7.2V
Typical	1.2V	7.7V
Maximum	1.4V	8.0V

CASSETTE DECK ELECTRICAL ADJUSTMENT

BEFORE ADJUSTMENT

It the tape surface which contacts the head, the capstan, and the pinch roller, etc., is stained, it will cause untable running of the tape, wow and flutter, imperfect recording and erasing, deterioration of tonal quality, and the tape jam around the capstan, etc. Occasionally clean each part as follows;

1. Cut off power
2. Open the cassette lid.
3. Wipe the head, the capstan, and the pinch roller with a cotton swab. If they are excessively stained, clean them with the swab soaked in absolute alcohol or cleaning liquid on the market.

MEASURING INSTRUMENTS REQUIRED

- Dualtrace Oscilloscope
- AC VTVM (AC voltmeter with high impedance)
- Frequency Counter
- Signal Oscillator
- Test Tapes
  - ‡ 3kHz Test Tape (Example: TEAC MTT-111) for Normal Tape Speed Adjustment
  - ‡ 10kHz Test Tape (Example: TEAC MTT-114) for Azimuth Adjustment
  - ‡ 400Hz Test Tape (Example: TEAC MTT-150) for Playback Sensitivity Adjustment
- Test Tapes for Recording and Playback Operations
  - ‡ Normal Tape (Example: TDK AC 223)

SWITCH POSITIONS

Unless especially indicated, set each switch as follows;

- Input Level Volume .... Center Click Position
- Surround Switch .... OFF
- Dolby NR Switch .... OFF
- Graphic Equalizer Controls .... FLAT Position

NORMAL TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the Dolby test point TP611-2 (Left Channel) or TP611-4 (Right Channel) and TP611-3 (GND) on the DOLBY P.C.Board.
2. Load Deck 1 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Adjust the potentiometer VR207 on the DECK CONTROL P.C.Board so that the output becomes 3000Hz ±10Hz.
4. Load Deck 2 with the same test tape.
5. Adjust the potentiometer VR209 so that the Deck 2 frequency should become as same as Deck 1.

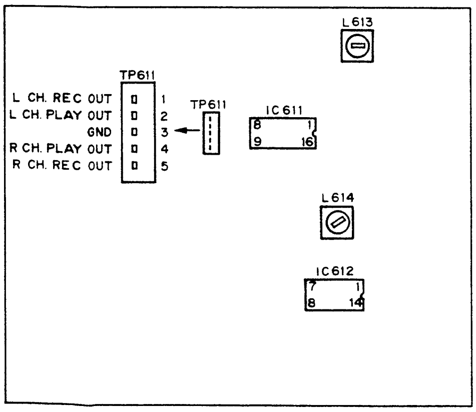
HIGH SPEED TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the Dolby test point TP611-2 (Left Channel) or TP611-4 (Right Channel) and TP611-3 (GND) on the DOLBY P.C.Board.
2. Load Deck 1 with a test tape (Example: TEAC MTT-111) and set it in the playback mode.
3. Short circuit High Speed Test Point TP201-2 (GND) and TP201-3 (DECK 1) DECK CONTROL P.C.Board. (The set will be set to the High Speed mode.)
4. Adjust the potentiometer VR208 on the DECK CONTROL P.C.Board so that the reading on the frequency counter is 6000Hz ±20Hz.
5. Load Deck 2 with the same test tape.
6. Short circuit High Speed Test Point TP201-1 (DECK 2) and TP201-2 (GND) on the DECK CONTROL P.C.Board.
7. Adjust the potentiometer VR210, so that the Deck 2 frequency should become as same as Deck 1.

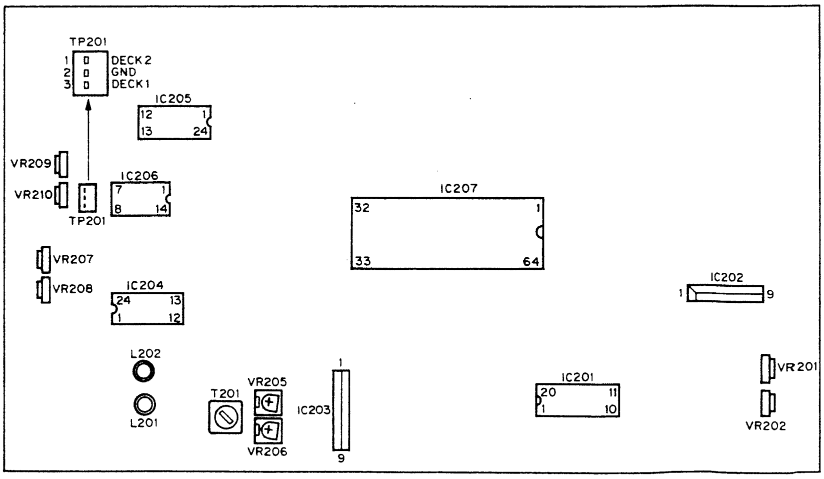
HEAD AZIMUTH ADJUSTMENT

1. Connect the dualtrace oscilloscope and AC VTVM to the Dolby test point TP611-2 and TP611-4 (Left and Right channel) on the DOLBY P.C.Board.

DOLBY P.C.BOARD ALIGNMENT POINTS (TOP VIEW)



DECK CONTROL P.C.BOARD ALIGNMENT POINTS (TOP VIEW)



CASSETTE DECK ELECTRICAL ADJUSTMENT (Continued)

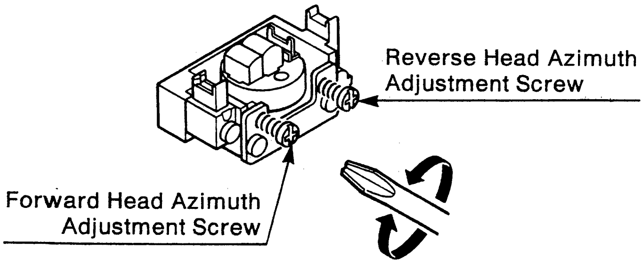
Then, set the dualtrace oscilloscope as follows:

‡ MODE .... CHOP (chopped)
‡ SOURCE .... INT (internal), CH1 or CH2
‡ SWEEP MODE .... AUTO (automatic)

NOTE:

Adjust the field on the oscilloscope with the VOLT. ADJ. and TIME ADJ.

2. Load Deck 1 with a test tape (Example: TEAC MTT-114) and set it in the forward playback mode.
3. Adjust the forward head azimuth adjustment screw, so that the wave forms become maximum on the oscilloscope and the Right channel wave form overlaps with the Left channel one.
4. Set the unit in the reverse playback mode and adjust the wave forms as described above instructions with the reverse head azimuth adjustment screw as well as the forward.


Reverse Head Azimuth Adjustment Screw
Forward Head Azimuth Adjustment Screw

5. Repeat the above several time.
6. Adjust Deck 2 in the same way as for Deck 1.
7. After the adjustment, secure the adjusting screw with paint or glue.

PLAYBACK SENSITIVITY ADJUSTMENT

1. Connect the oscilloscope and AC VTVM to the Dolby test point TP611-2 and TP611-4 (Left and Right channel) on the DOLBY P.C.Board.
2. Load Deck 2 with a test tape (Example: TEAC MTT-150) and set it in the playback mode.
3. Adjust potentiometer VR201 (Left Channel), so that the output level becomes 580mV ±0.5dB.
4. Adjust potentiometer VR202 for the Right channel by following the same procedures as described for the Left channel.
5. After the adjustment, Load Deck 1 with a test tape (Example: TEAC MTT-150) and set it in to playback mode.
6. Checking the AC VTVM for Indication 580mV ±1dB.

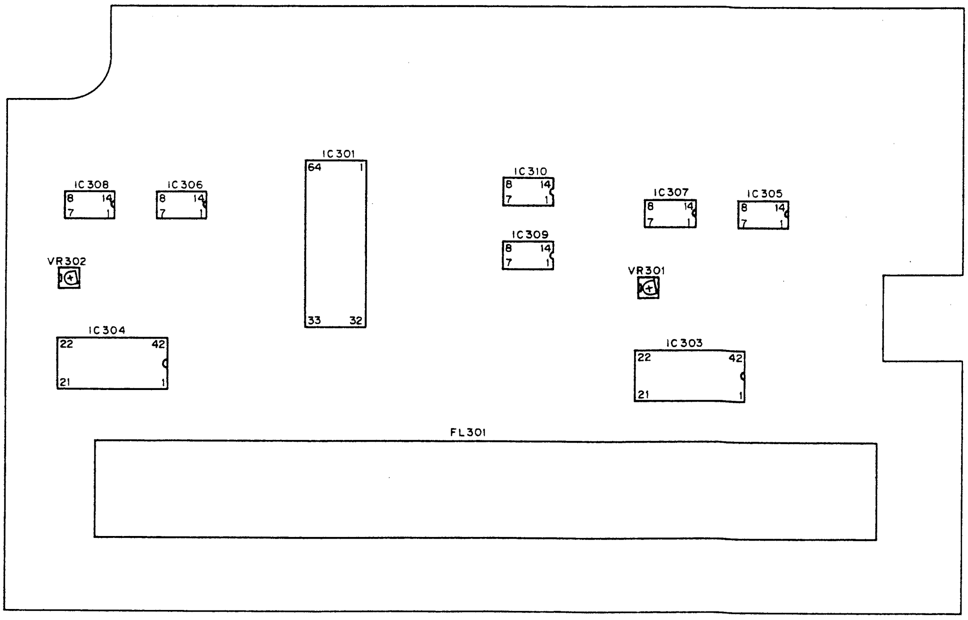
RECORDING BIAS LEVEL ADJUSTMENT (DECK2)

1. Connect the audio signal generator to the Left channel of the DAT/VCR input terminal, and the AC VTVM to the Dolby test point TP611-2 and TP611-4 (Left and Right channel) on the DOLBY P.C.Board.
2. Load Deck 2 with a normal tape (Example: TDK AC223) and set it in the recording mode.
3. Function switch to the DAT/VCR position.
4. Set the Input Level ATT so that the output level becomes 20mV and feed the signals of 1kHz and 12.5kHz from the audio signal generator into the unit. Then, record the signals on the tape.
5. Playback the recorded signals and adjust potentiometer VR205 for the Left channel, so that the difference in output of the 1kHz and 12.5kHz signals become ±1dB.
6. Adjust potentiometer VR206 for the Right channel by following the same procedures as described for the Left channel.

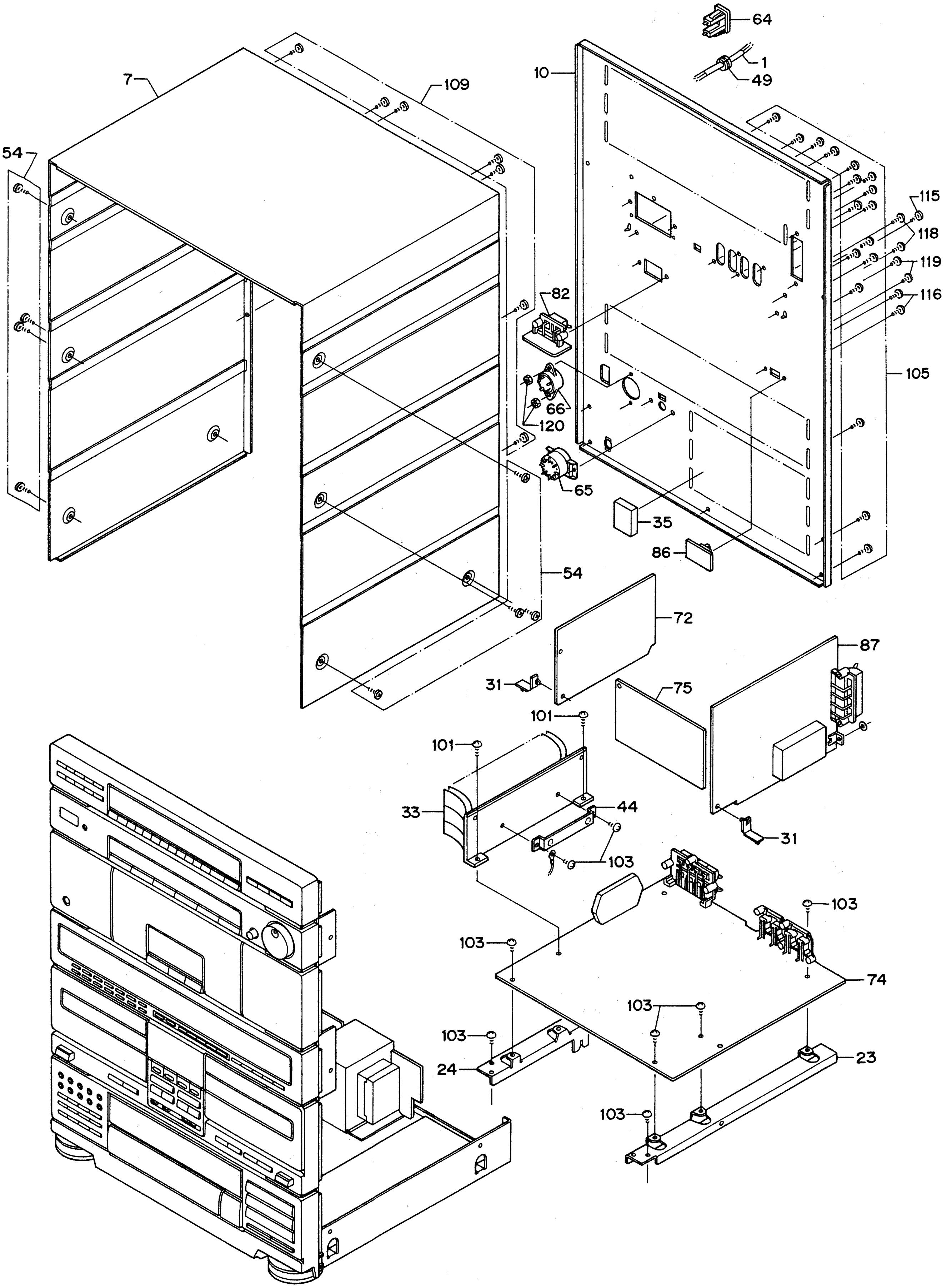
REC LEVEL METER SENSITIVITY ADJUSTMENT

1. After the playback sensitivity adjustment was mode, playback the test tape (Example: TEAC MTT-150) on Deck 2.
2. Adjust potentiometer VR301 and VR302 (Left and Right channel) so that the Level meter indicates light up 0dB (Red point).

FRONT CONTROL P.C.BOARD ALIGNMENT POINTS
(BOTTOM VIEW)



CABINET EXPLODED VIEW : 1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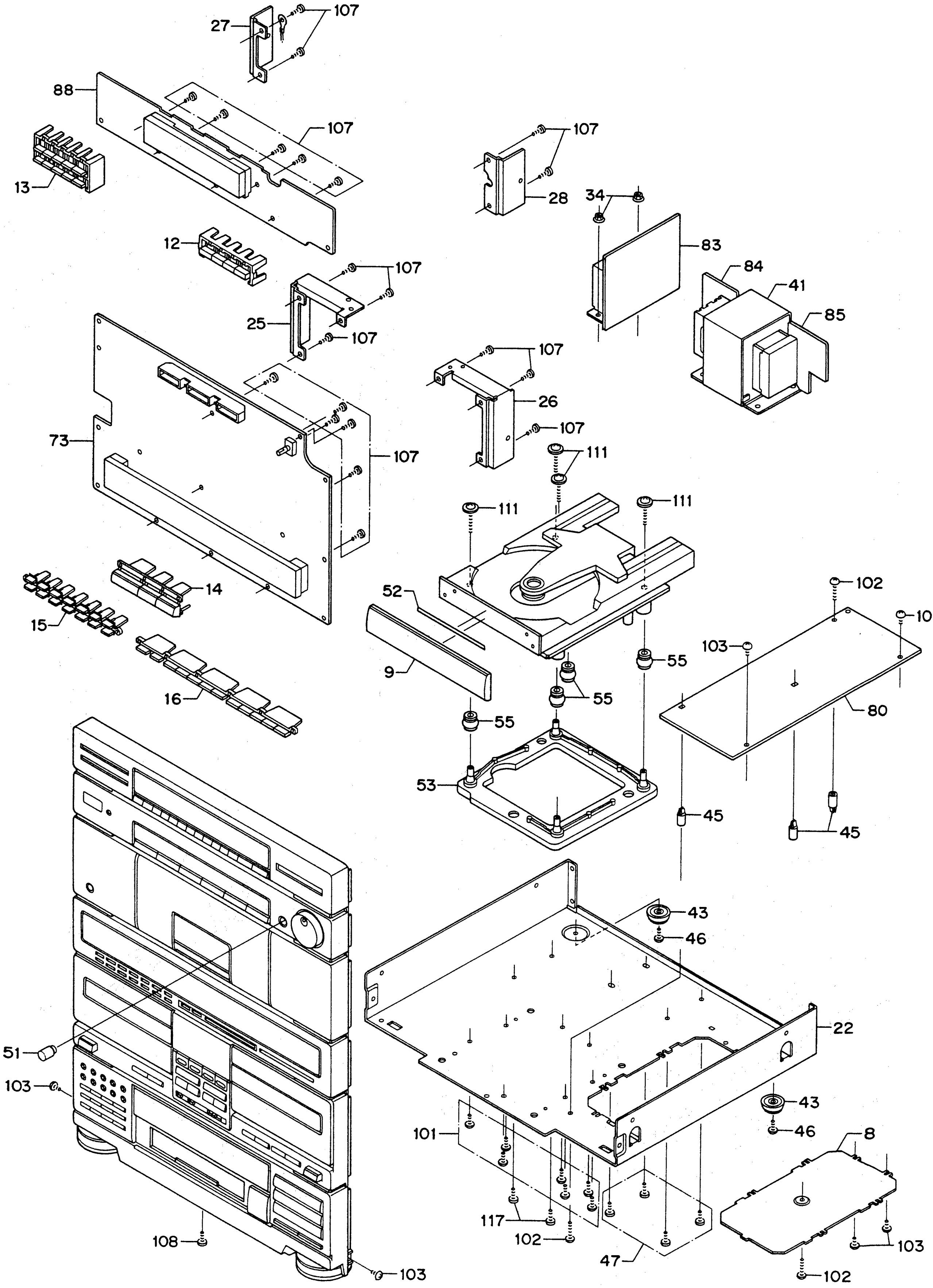
CABINET EXPLODED VIEW : 2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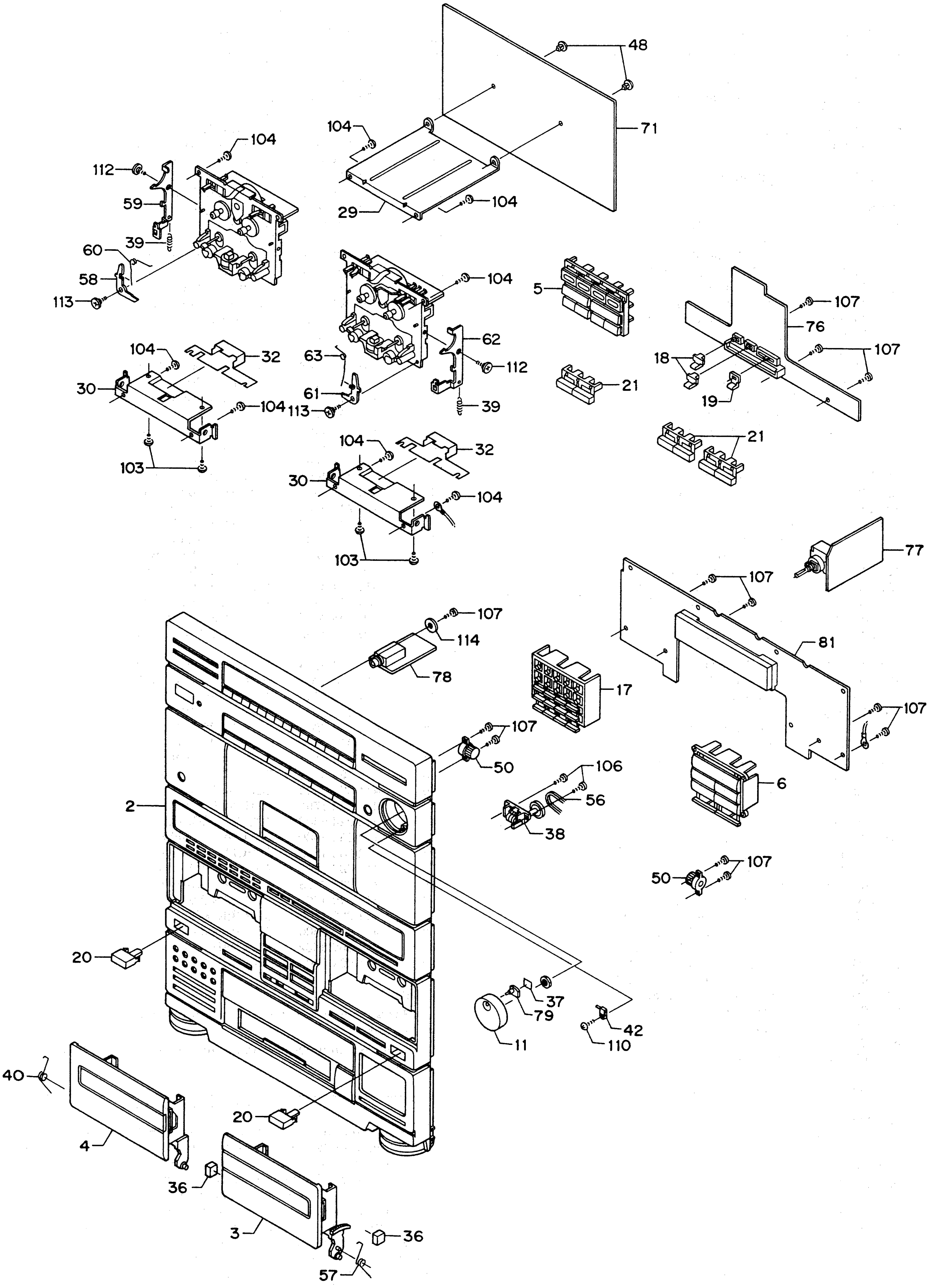
CABINET EXPLODED VIEW : 3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57

CABINET PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKAGE			
	620 205 2281	Inner Carton	1
	620 202 8743	Sheet,Polyethylene	1
	620 202 8750	Sheet,Patching	1
	620 204 3449	Sheet	1
	620 196 6060	Pad,Shoulder	1
	620 196 6077	Pad,Bottom	1
	620 152 7452	Serial No. Sheet	2
ACCESSORIES			
	620 021 4834	Plug Adaptor Assy	1
	620 024 3865	FM Antenna	1
	411 123 3906	SCR TPG BIN 3X10	2
	620 199 8337	Loop Antenna,LA300B	1
	620 205 5039	Remocon,DJ5MV	1
	620 205 5046	Instruction Manual,ENG,JP	1
	620 205 5053	Instruction Manual,SPCHKO	1
	620 057 8783	Bag Fan	1
	620 061 0209	Notes	1
	620 061 2340	Notes (Laser)	1
	620 061 2401	Notes (Laser)	1
	620 061 2418	Notes (Laser)	1
	620 113 5305	Stand Antenna	1
	620 148 5561	Poly Cover 100 x 100	1
CABINET			
CA982	620 201 6993	Assy,Connector-S,2P	1
CN57	620 188 6191	Connector 9P Assy	1
W1	620 201 9000	Assy,Terminal,1P	1
	620 125 8424	Wire Band	22
	620 152 7452	Serial No. Sheet	1
1	⚠ 620 023 7536	Power Cord	1
2	620 205 4681	Assy,Cabinet,DJ5MV	1
3	620 205 4698	Assy,Lid,Cassette,Right	1
4	620 205 4704	Assy,Lid,Cassette,Left	1
5	620 201 3114	Assy,Knob,Deck	1
6	620 201 3138	Assy,Knob,CD	1
7	620 200 6369	Cover	1
8	620 200 6376	Cover,Bottom	1
9	620 200 9438	Decoration,CD	1
10	620 205 4834	Panel,Rear	1
11	620 200 8653	Knob,Volume	1
12	620 200 8660	Knob,Tuner Function	1
13	620 200 8677	Knob,Timer	1
14	620 203 9633	Knob,Power Function	1
15	620 200 8691	Knob,Frequency	1
16	620 200 8707	Knob;Preset	1
17	620 200 8790	Knob,Edit	1
18	620 200 9254	Knob,Dolby	2
19	620 200 9261	Knob,Level	1
20	620 200 9278	Knob,Eject	2
21	620 200 9285	Knob,AMSS	3
22	620 200 6383	Chassis	1
23	620 200 6260	Bracket-E,Power PCB,Right	1
24	620 200 6277	Bracket-E,Power PCB,Left	1
25	620 200 6284	Bracket-E,EQ. PCB,Left	1
26	620 200 6291	Bracket-E,EQ. PCB,Right	1
27	620 200 6307	Bracket-E,Tuner PCB,Left	1
28	620 200 6314	Bracket-E,Tuner PCB,Right	1
29	620 200 6321	Bracket-E,Deck P.C.B.	1
30	620 200 6352	Bracket-M,Lid Cassette	2
31	620 202 4639	Hinge,PCB	2
32	620 202 2024	Shield	2
33	620 202 1034	Heat Sink	1
34	620 051 4767	Flange Nut	2
35	620 202 9412	Cushion,Rubber	1
36	620 203 7868	Cushion,Rubber	2
37	620 202 8880	Sheet	1
38	620 201 4289	Counter	1
39	620 202 8606	Spring,Tens	2
40	620 200 6338	Spring,Tors,Left	1
41	⚠ 620 205 7361	Power Trans,MV,120VA	1
42	620 201 7266	Switch,Leaf [SW50]	1
43	620 047 3842	Leg	2
44	620 048 2608	Metal Mount (IC)	1
45	620 050 4409	Mount P.C.B	3
46	620 051 3708	Screw Braz. HD. +M3X8	2
47	620 051 4149	Screw C-Tite 4X8 Z1	4
48	620 052 1659	Rivet	2
49	620 053 2129	Bushing (Power Cord)	1
50	620 083 1789	Gear Eject Assy	2
51	620 188 4562	Knob Rotary	1
52	620 188 5989	Adhesive Sheet A	1
53	620 117 6698	Bracket CD	1
54	620 122 9738	Screw Bind HD. +M3.0X8	8
55	620 124 3437	Cushion Rubber	4
56	620 128 5031	Belt Counter	1
57	620 138 0002	Spring Lid Right	1
58	620 200 6635	Stopper,Eject,Left	1
59	620 200 6710	Arm,Left	1
60	620 201 2179	Spring,Tors,Left	1
61	620 200 6666	Stopper,Eject,Right	1
62	620 200 6734	Arm,,Right	1
63	620 201 2186	Spring,Tors,Right	1
64	⚠ 620 020 0523	AC Socket With/Polarity	1
65	⚠ 620 015 1504	Switch Rotary 2-4 (SEL.-1 MAIN)	1
66	⚠ 620 015 3348	Voltage Selector (SEL.-2 SUB)	1
71	620 204 8468	Assy,PCB,Deck Control	1
72	620 201 3312	Assy,PCB,Dolby	1
73	620 204 8451	Assy,PCB,Amplifier Control	1
74	620 205 6227	Assy,PCB,Main Power	1
75	620 201 4609	Assy,PCB,Graphic EQ.	1
76	620 201 4630	Assy,PCB,Deck Switch	1
77	620 204 9762	Assy,PCB,Motor Volume	1
78	620 201 4661	Assy,PCB,Headphone	1
79	620 201 4678	Assy,PCB,Volume Indicator	1
80	620 201 5125	Assy,PCB,CD Main	1
81	620 201 5132	Assy,PCB,CD Control	1
82	620 203 0487	Assy,PCB,3 Dimension	1
83	620 205 6210	Assy,PCB,SUB Power	1
84	620 204 8406	Assy,PCB,Main Trans-1	1
85	620 204 8413	Assy,PCB,Main Trans-2	1
86	620 204 8420	Assy,PCB,Beat Switch	1
87	620 205 8085	Assy,PCB,Tuner Main	1
88	620 205 8092	Assy,PCB,Tuner Front	1
101	411 020 5904	SCR S-TPG BRZ 3X10	9
102	411 020 7007	SCR S-TPG BRZ 3X20	3
103	411 020 7700	SCR S-TPG BRZ 3X6	18
104	411 020 8004	SCR S-TPG BRZ 3X8	8
105	411 099 9803	SCR S-TPG BRZ 3X8	17
106	411 021 0809	SCR S-TPG BIN 2X6	2
107	411 021 3107	SCR S-TPG BIN 2.6X8	33
108	411 021 5903	SCR S-TPG BIN 3X6	1
109	411 021 6603	SCR S-TPG BIN 3X8	7
110	411 022 6701	SCR S-TPG PAN 2X10	1
111	412 024 6300	SPECIAL SCREW	4
112	412 035 1400	SPECIAL SCREW	2
113	412 035 1509	SPECIAL SCREW	2
114	411 092 7806	WASHER Z 3.2X16X1	1
115	412 034 8509	SPECIAL SCREW	1
116	411 040 1702	SCR PAN 2.6X4	2
117	411 002 1108	SCR BIN 4X8	2
118	411 040 6400	SCR PAN 3X10	2
119	411 002 8602	SCR PAN 3X6	2
120	411 004 4404	NUT HEX 3	2

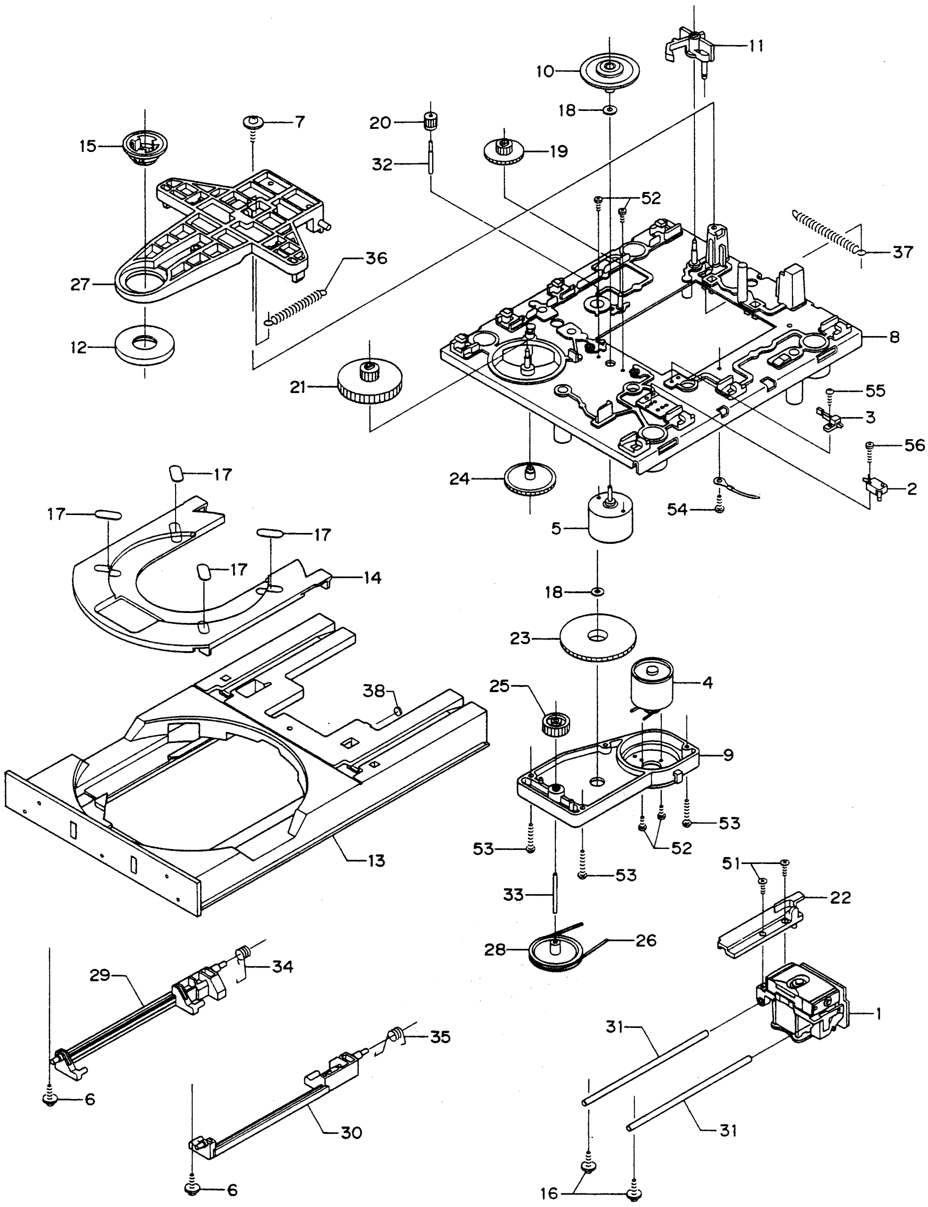
NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

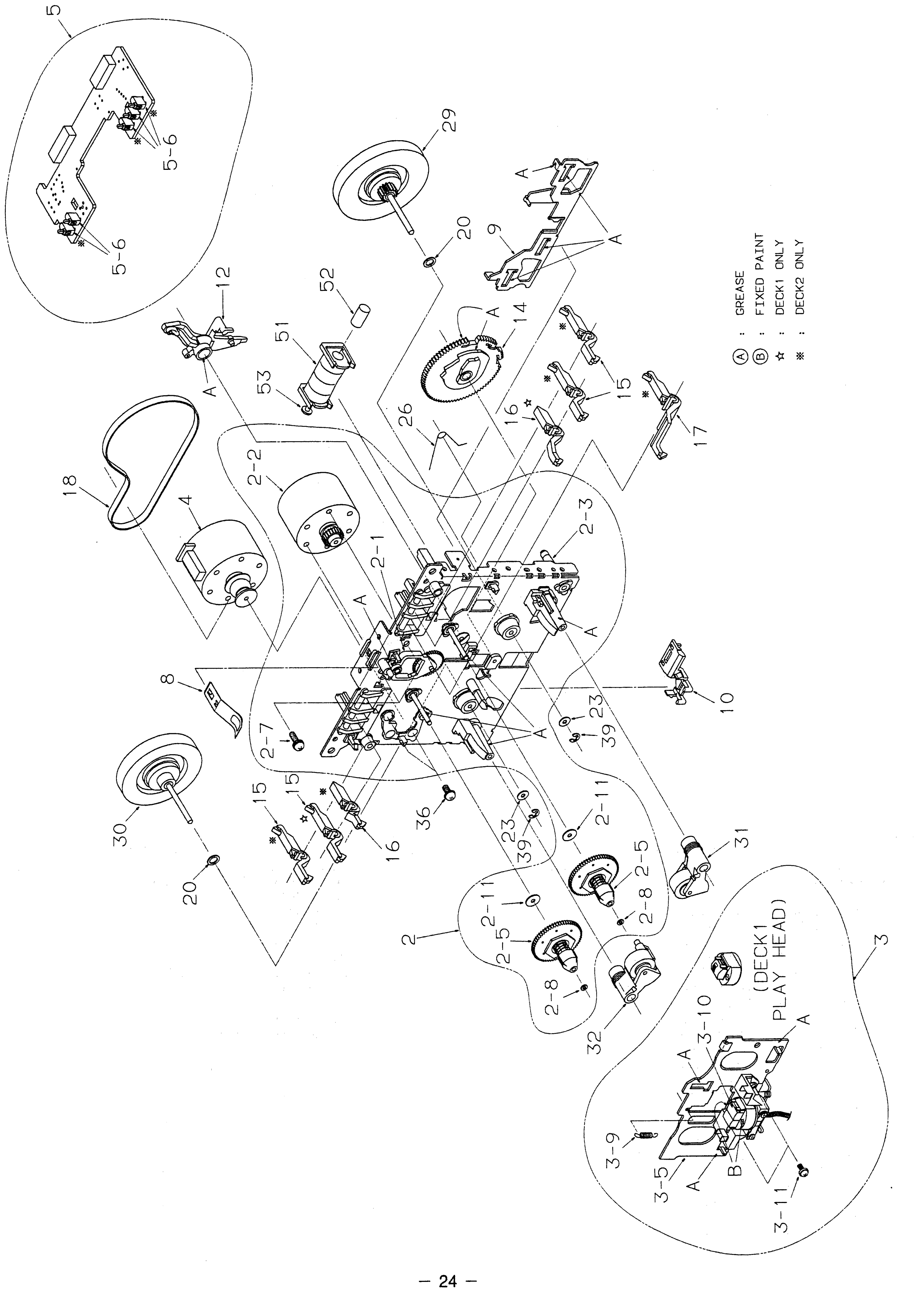
Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CD PLAYER MECHANISM EXPLODED VIEW & PARTS LIST



Ref. No.	Part No.	Description	Q'ty
CD MECHANISM			
	620 202 7210	Label,Identification	1
	620 125 8424	Wire Band	2
1	620 062 6170	Pick-up Assy 88	1
2	620 015 3744	Lever Switch 1P1T (Lid Open)	1
3	620 016 2401	Leaf Switch (Pick-up Inner)	1
4	620 189 0426	Motor (Sled Motor)	1
5	620 189 0433	Motor (Spindle Motor)	1
6	620 051 4279	Screw 3X8	2
7	620 051 4316	Screw 3X10	1
8	620 081 5963	Chassis Assy	1
9	620 185 9898	Chassis Sub Assy	1
10	620 082 7478	Turntable Assy	1
11	620 083 3974	Arm Assy	1
12	620 085 6553	Magnet Assy	1
13	620 190 6547	Table Load	1
14	620 185 9911	Table CD	1
15	620 119 1530	Holder Disc	1
16	620 123 0772	Screw Washer 2.6X6	2
17	620 184 9905	Pad Disc (Felt)	4
18	620 125 1487	Washer M1.9X7.0X0.25	2
19	620 127 9429	Gear Pick-up	1
20	620 127 9436	Gear Motor	1
21	620 127 9467	Gear Table Load	1
22	620 127 9474	Gear Pick-up Rack	1
23	620 185 9973	Gear Load Pick-up	1
24	620 185 9980	Gear Load T.L	1
25	620 185 9997	Gear	1
26	620 186 0009	Belt	1
27	620 129 5986	Flap Disc Cramp	1
28	620 186 0023	Pulley	1
29	620 186 0030	Lever Hold Disc Left	1
30	620 186 0047	Lever Hold Disc Right	1
31	620 133 4081	Shaft Pick-up	2
32	620 133 4098	Shaft Gear S	1
33	620 186 0054	Shaft Pulley	1
34	620 186 0061	Spring Lever Left	1
35	620 186 0078	Spring Lever Right	1
36	620 139 1558	Spring Flap Disc CR	1
37	620 139 1565	Spring Arm	1
38	620 202 7203	Spacer	1
51	411 108 0104	SCR FLT PCS 2X5	2
52	411 099 0701	SCR PAN PCS 1.7X3	4
53	411 020 5409	SCR S-TPG BRZ 2.6X14	3
54	411 020 7700	SCR S-TPG BRZ 3X6	1
55	411 022 7807	SCR S-TPG PAN 2X6	1
56	411 104 6605	SCR TPG PAN 1.7X10	1

CASSETTE DECK MECHANISM EXPLODED VIEW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(DECK1
PLAY HEAD)
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B
Ⓐ : GREASE
Ⓑ : FIXED PAINT
☆ : DECK1 ONLY
※ : DECK2 ONLY

CASSETTE DECK MECHANISM PART LIST

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
2	620 201 5231	Block Chassis	2
2 -1	620 201 5248	Block Idler	1
2 -2	620 201 5262	Block Motor Reel	1
2 -3	620 201 5323	Block Base Chassis	1
2 -5	620 201 5330	Block Base Reel	2
2 -7	620 201 5347	Screw	2
2 -8	620 201 5354	Washer	2
2 -11	620 201 5361	Polyslider	2
3	620 201 5385	Block Plate Head (DECK 1)	1
3 -5	620 201 5392	Base Head	1
3 -9	620 201 5422	Spring Base Head	1
3 -10	620 201 5446	Head (HADKH2513)	1
3 -11	620 201 5453	Screw	2
3	620 201 5378	Block Plate Head (DECK 2)	1
3 -5	620 201 5392	Base Head	1
3 -9	620 201 5422	Spring Base Head	1
3 -10	620 201 5439	Head (HADKH5557)	1
3 -11	620 201 5453	Screw	2
4	620 201 5460	Block Motor Main	2
5	620 201 5484	Block P.C.B. Control (DECK 1)	1
5 -17	620 201 5491	Push Switch	2
5	620 201 5477	Block P.C.B. Control (DECK 2)	1
5 -17	620 201 5491	Push Switch	5
8	620 204 0158	Spring Cassette Pushing	2
9	620 201 5514	Slide Plate	2
10	620 201 5521	Lead Holder	2
12	620 201 5538	Arm Play	2
13	620 201 5545	Gear Cam	2
15	620 201 5552	Lever (REC SW) (DECK 1)	1
15	620 201 5552	Lever (REC SW) (DECK 2)	3
16	620 201 5583	Lever (L) (Pack SW) (DECK 1)	1
16	620 201 5576	Lever (R) (Pack SW) (DECK 2)	1
17	620 201 5590	Lever (Metal SW)	1
18	620 201 5613	Belt Main	2
20	620 201 5620	Polyslider	4
23	620 201 5637	Polyslider	4
26	620 201 5644	Spring Slide	2
29	620 201 5651	ASS'Y Flywheel	2
30	620 201 5668	ASS'Y Flywheel	2
31	620 201 5675	ASS'Y Pinch Roller (R)	2
32	620 201 5682	ASS'Y Pinch Roller (L)	2
36	620 201 5699	Screw	4
39	620 201 5705	E-Ring	2
51	620 201 5712	Block Solenoid	2
52	620 201 5729	Iron Core	2
53	620 201 5736	Plunger	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,DECK CONTROL			
71	620 204 8468	Assy,PCB,Deck Control	1
	620 118 2125	Plate Shield	1
CA201	620 201 8201	Assy,Connector-S,3P	1
CA202	620 201 8218	Assy,Connector-S,6P	1
CA203	620 201 8188	Assy,Connector-S,7P	1
CA204	620 201 8164	Assy,Connector-S,3P	1
CA205	620 201 8188	Assy,Connector-S,7P	1
CA206	620 201 8171	Assy,Connector-S,6P	1
CA436	620 201 8287	Assy.Connector-S,8P	1
CN33	620 021 1970	Plug 2P	1
CN751	620 021 8351	Plug 11P	1
CN752	620 021 8337	Plug 6P	1
L201	620 201 6351	Inductor,Ferrite,Trap	1
L202	620 201 6351	Inductor,Ferrite,Trap	1
RT211	620 021 6791	RT Pin 1P	1
SH208	620 200 2606	Socket,Holder,9P	1
SH209	620 201 6566	Socket,Holder,4P	1
SH210	620 200 2620	Socket.Holder,3P	1
TP201	620 021 4025	Plug 3P	1
T201	620 201 6344	Trans,OSC,Tape Bias	1
VR201	620 201 6337	Potentiometer 20KB	1
VR202	620 201 6337	Potentiometer 20KB	1
VR205	620 197 9848	Potentiometer,50KB	1
VR206	620 197 9848	Potentiometer,50KB	1
VR207	620 203 1842	Potentiometer,20KB	1
or	620 006 1957	Potentiometer 20KB	1
VR208	620 203 1835	Potentiometer,10KB	1
or	620 006 1940	Potentiometer 10KB	1
VR209	620 203 1842	Potentiometer,20KB	1
or	620 006 1957	Potentiometer 20KB	1
VR210	620 203 1835	Potentiometer,10KB	1
or	620 006 1940	Potentiometer 10KB	1
W208	620 201 8294	Wire,9P	1
W209	620 201 8300	Wire,4P	1
W210	620 201 8317	Wire,3P	1
X201	620 189 5117	Ceramic OSC 6MHz	1
IC201	409 121 8702	IC LA3246	1
IC202	409 016 5502	IC LA2000	1
IC203	409 145 8405	IC UPC1330HA	1
IC204	409 115 8800	IC TA8121AN	1
IC205	409 115 8800	IC TA8121AN	1
IC206	409 207 1108	IC MLC4001B	1
IC207	409 214 0002	IC M50954-131SP	1
or	409 198 9305	IC M50954-121SP	1
IC208	409 196 7600	IC NJM7808FA	1
Q208	405 018 7209	TR 2SC3708-S	1
or	405 018 7308	TR 2SC3708-T	1
Q209	405 006 6702	TR 2SA984-F	1
or	405 006 6504	TR 2SA984-E	1
Q210	405 006 6702	TR 2SA984-F	1
or	405 006 6504	TR 2SA984-E	1
Q211	405 006 6702	TR 2SA984-F	1
or	405 006 6504	TR 2SA984-E	1
Q212	405 018 2600	TR 2SC3400	1
Q214	405 018 2600	TR 2SC3400	1
Q215	405 018 2600	TR 2SC3400	1
Q216	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q217	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q218	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q219	405 023 5306	TR 2SD400-F-MP	1
or	405 023 5702	TR 2SD400-G-MP	1
Q220	405 008 6700	TR 2SB808-F	1
or	405 008 7004	TR 2SB808-G	1
Q221	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q222	405 023 5306	TR 2SD400-F-MP	1
or	405 023 5702	TR 2SD400-G-MP	1
Q224	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q225	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q226	405 024 9907	TR 2SD734-F	1
or	405 024 9709	TR 2SD734-E	1
Q227	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q228	405 018 2600	TR 2SC3400	1
Q229	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q230	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q231	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q232	405 034 9607	TR DTC114-YS	1
D201	407 050 7605	ZENER DIODE GZA9.1X-BT	1
D202	407 005 3805	DIODE DS442-BT	1
D203	407 005 3805	DIODE DS442-BT	1
D204	407 004 9105	DIODE DSF10C-BT	1
D205	407 005 3805	DIODE DS442-BT	1
D206	407 005 3805	DIODE DS442-BT	1
D207	407 004 9105	DIODE DSF10C-BT	1
D208	407 008 0405	DIODE GMB01-BT	1
D209	407 008 0405	DIODE GMB01-BT	1
D210	407 008 0405	DIODE GMB01-BT	1
D211	407 008 0405	DIODE GMB01-BT	1
D212	407 008 0405	DIODE GMB01-BT	1
D213	407 008 0405	DIODE GMB01-BT	1
D214	407 008 0405	DIODE GMB01-BT	1
D216	407 050 4703	ZENER DIODE GZA5.1X-BT	1
D217	407 005 3805	DIODE DS442-BT	1
D218	407 008 0405	DIODE GMB01-BT	1
C28	403 071 2001	CERAMIC 180P K 50V	1
C203	403 073 7004	CERAMIC 470P K 50V	1
C204	403 073 7004	CERAMIC 470P K 50V	1
C207	403 073 7004	CERAMIC 470P K 50V	1
C208	403 073 7004	CERAMIC 470P K 50V	1
C211	403 044 0300	ELECT 47U M 16V	1
C212	403 044 0300	ELECT 47U M 16V	1
C213	403 057 0908	POLYESTER 0.01U K 50V	1
C214	403 057 0908	POLYESTER 0.01U K 50V	1
C215	403 058 3700	POLYESTER 0.015U K 50V	1
C216	403 058 3700	POLYESTER 0.015U K 50V	1
C217	403 051 2106	ELECT 4.7U M 50V	1
C218	403 051 2106	ELECT 4.7U M 50V	1
C219	403 042 3600	ELECT 100U M 16V	1
C220	403 042 3600	ELECT 100U M 16V	1
C221	403 051 2106	ELECT 4.7U M 50V	1
C222	403 051 2106	ELECT 4.7U M 50V	1
C223	403 051 2106	ELECT 4.7U M 50V	1
C224	403 048 7701	ELECT 0.47U M 50V	1
C225	403 074 9205	CERAMIC 680P K 50V	1
C226	403 048 5509	ELECT 0.33U M 50V	1
C227	403 048 7701	ELECT 0.47U M 50V	1
C228	403 044 0300	ELECT 47U M 16V	1
C229	403 073 7004	CERAMIC 470P K 50V	1
C230	403 073 7004	CERAMIC 470P K 50V	1
C231	403 068 9402	CERAMIC 100P K 50V	1
C232	403 068 9402	CERAMIC 100P K 50V	1
C233	403 044 0300	ELECT 47U M 16V	1
C234	403 081 2602	POLYPRO 2200P J 100V	1
C235	403 042 3600	ELECT 100U M 16V	1
C236	403 063 0503	POLYESTER 6800P K 50V	1
C237	403 056 8608	POLYESTER 1000P K 50V	1
C238	403 042 3600	ELECT 100U M 16V	1
C239	403 051 2106	ELECT 4.7U M 50V	1
C240	403 050 3708	ELECT 22U M 50V	1
C241	403 067 8208	MT-COMPO 0.068U J 50V	1
C242	403 042 3600	ELECT 100U M 16V	1
C243	403 051 2106	ELECT 4.7U M 50V	1
C244	403 050 3708	ELECT 22U M 50V	1
C245	403 067 8208	MT-COMPO 0.068U J 50V	1
C246	403 038 2402	ELECT 100U M 6.3V	1
C247	403 042 3600	ELECT 100U M 16V	1
C249	403 038 2402	ELECT 100U M 6.3V	1
C250	403 051 2106	ELECT 4.7U M 50V	1
C251	403 046 4603	ELECT 33U M 25V	1
C252	403 069 1207	CERAMIC 1000P K 50V	1
C253	403 042 3600	ELECT 100U M 16V	1
C254	403 049 1708	ELECT 1U M 50V	1
R49	401 019 1000	CARBON 390 JA 1/4W	1
R203	401 024 7707	CARBON 100K JA 1/6W	1
R204	401 024 7707	CARBON 100K JA 1/6W	1
R205	401 024 6403	CARBON 10 JA 1/6W	1
R206	401 024 6403	CARBON 10 JA 1/6W	1
R207	401 024 7707	CARBON 100K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R208	401 024 7707	CARBON 100K JA 1/6W	1
R209	401 024 6700	CARBON 100 JA 1/6W	1
R210	401 024 6700	CARBON 100 JA 1/6W	1
R211	401 024 9701	CARBON 12K JA 1/6W	1
R212	401 024 9701	CARBON 12K JA 1/6W	1
R213	401 025 4606	CARBON 18K JA 1/6W	1
R214	401 025 4606	CARBON 18K JA 1/6W	1
R215	401 025 7805	CARBON 2.2K JA 1/6W	1
R216	401 025 7805	CARBON 2.2K JA 1/6W	1
R217	401 026 1000	CARBON 2.7K JA 1/6W	1
R218	401 026 1000	CARBON 2.7K JA 1/6W	1
R219	401 012 7009	CARBON 10K JA 1/4W	1
R220	401 012 7009	CARBON 10K JA 1/4W	1
R221	401 012 7009	CARBON 10K JA 1/4W	1
R222	401 012 7009	CARBON 10K JA 1/4W	1
R223	401 024 7400	CARBON 10K JA 1/6W	1
R224	401 024 7400	CARBON 10K JA 1/6W	1
R225	401 024 7400	CARBON 10K JA 1/6W	1
R226	401 024 7400	CARBON 10K JA 1/6W	1
R227	401 017 0807	CARBON 270 JA 1/4W	1
R228	401 020 0801	CARBON 470 JA 1/4W	1
R229	401 024 9701	CARBON 12K JA 1/6W	1
R230	401 025 2305	CARBON 150K JA 1/6W	1
R233	401 024 7400	CARBON 10K JA 1/6W	1
R234	401 024 7400	CARBON 10K JA 1/6W	1
R235	401 024 7400	CARBON 10K JA 1/6W	1
R236	401 024 7707	CARBON 100K JA 1/6W	1
R237	401 024 7400	CARBON 10K JA 1/6W	1
R238	401 027 3706	CARBON 6.8 JA 1/6W	1
R239	401 024 7400	CARBON 10K JA 1/6W	1
R240	401 016 9702	CARBON 27 JA 1/4W	1
R241	401 018 2800	CARBON 330 JA 1/4W	1
R242	401 018 2800	CARBON 330 JA 1/4W	1
R243	401 025 8208	CARBON 22K JA 1/6W	1
R244	401 025 8208	CARBON 22K JA 1/6W	1
R245	401 025 8208	CARBON 22K JA 1/6W	1
R246	401 026 9907	CARBON 4.7K JA 1/6W	1
R247	401 026 9907	CARBON 4.7K JA 1/6W	1
R248	401 026 9907	CARBON 4.7K JA 1/6W	1
R249	401 026 0003	CARBON 24K JA 1/6W	1
R250	401 024 7400	CARBON 10K JA 1/6W	1
R251	401 024 7707	CARBON 100K JA 1/6W	1
R252	401 027 0309	CARBON 47K JA 1/6W	1
R253	401 025 8208	CARBON 22K JA 1/6W	1
R254	401 014 4105	CARBON 1.5K JA 1/4W	1
R255	401 026 0003	CARBON 24K JA 1/6W	1
R256	401 024 7400	CARBON 10K JA 1/6W	1
R257	401 024 7707	CARBON 100K JA 1/6W	1
R258	401 016 4806	CARBON 22K JA 1/4W	1
R259	401 014 4105	CARBON 1.5K JA 1/4W	1
R260	401 024 7707	CARBON 100K JA 1/6W	1
R261	401 027 2105	CARBON 56 JA 1/6W	1
R262	401 025 6501	CARBON 20K JA 1/6W	1
R263	401 024 7004	CARBON 1K JA 1/6W	1
R264	401 026 9600	CARBON 470 JA 1/6W	1
R265	401 027 0309	CARBON 47K JA 1/6W	1
R266	401 024 7707	CARBON 100K JA 1/6W	1
R267	401 027 2105	CARBON 56 JA 1/6W	1
R268	401 025 6501	CARBON 20K JA 1/6W	1
R269	401 024 7004	CARBON 1K JA 1/6W	1
R270	401 026 9600	CARBON 470 JA 1/6W	1
R271	401 027 0309	CARBON 47K JA 1/6W	1
R274	401 024 8001	CARBON 1M JA 1/6W	1
R275	401 025 8208	CARBON 22K JA 1/6W	1
R276	401 027 2600	CARBON 5.6K JA 1/6W	1
R277	401 027 2600	CARBON 5.6K JA 1/6W	1
R278	401 024 9305	CARBON 1.2K JA 1/6W	1
R279	401 024 7400	CARBON 10K JA 1/6W	1
R280	401 024 7400	CARBON 10K JA 1/6W	1
R281	401 024 7400	CARBON 10K JA 1/6W	1
R282	401 024 7400	CARBON 10K JA 1/6W	1
R283	401 012 7009	CARBON 10K JA 1/4W	1
R284	401 012 7009	CARBON 10K JA 1/4W	1
R285	401 024 7400	CARBON 10K JA 1/6W	1
R286	401 024 7400	CARBON 10K JA 1/6W	1
R287	401 016 2604	CARBON 220 JA 1/4W	1
R288	401 016 2604	CARBON 220 JA 1/4W	1
R289	401 016 2604	CARBON 220 JA 1/4W	1
R290	401 019 1000	CARBON 390 JA 1/4W	1
R291	401 016 2604	CARBON 220 JA 1/4W	1
R292	401 024 7400	CARBON 10K JA 1/6W	1
R293	401 024 7400	CARBON 10K JA 1/6W	1
R294	401 026 9600	CARBON 470 JA 1/6W	1
R295	401 024 7707	CARBON 100K JA 1/6W	1
R296	401 012 7009	CARBON 10K JA 1/4W	1
R297	401 027 9005	CARBON 82K JA 1/6W	1
R298	401 024 7004	CARBON 1K JA 1/6W	1
R299	401 024 5604	CARBON 1 JA 1/6W	1
R300	401 027 2600	CARBON 5.6K JA 1/6W	1
R748	401 012 7009	CARBON 10K JA 1/4W	1
R749	402 015 3906	FUSIBLE RES 22 J- 1/4W	1
ASSY,PCB,DOLBY			
72	620 201 3312	Assy,PCB,Dolby	1
CN208	620 201 6498	Socket,Jumper,9P	1
CN209	620 017 5289	Socket Jumper 4P	1
CN210	620 020 4729	Socket Jumper 3P	1
CN611	620 201 6726	Socket,8P	1
CN612	620 201 6702	Socket,5P	1
CN753	620 201 6481	Socket,Jumper,8P	1
L613	620 029 5826	Dolby Filter	1
L614	620 029 5826	Dolby Filter	1
L615	620 027 1912	AF Coil	1
L616	620 027 1912	AF Coil	1
TP611	620 021 5589	Plug 5P	1
IC611	409 199 1209	IC HA12136A	1
IC612	409 020 8704	IC LC4066B	1
or	409 207 1900	IC MLC4066B	1
Q611	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q612	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q613	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q614	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q615	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q616	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q617	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q618	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q619	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q620	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q621	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q622	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q623	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q624	405 018 2600	TR 2SC3400	1
Q625	405 018 2600	TR 2SC3400	1
Q626	405 018 2600	TR 2SC3400	1
Q627	405 003 7702	TR 2SA1346	1
Q629	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q630	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q631	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q632	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q633	405 018 2600	TR 2SC3400-AC	1
Q634	405 018 2600	TR 2SC3400-AC	1
Q635	405 018 2600	TR 2SC3400-AC	1
Q636	405 018 2600	TR 2SC3400-AC	1
Q637	405 018 2600	TR 2SC3400-AC	1
Q638	405 018 2600	TR 2SC3400-AC	1
Q639	405 018 2600	TR 2SC3400-AC	1
Q640	405 018 2600	TR 2SC3400-AC	1
Q641	405 003 7702	TR 2SA1346-AC	1
D611	407 008 0405	DIODE GMB01-BT	1
D612	407 008 0405	DIODE GMB01-BT	1
D613	407 008 0405	DIODE GMB01-BT	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D614	407 008 0405	DIODE GMB01-BT	1
D615	407 008 0405	DIODE GMB01-BT	1
D616	407 008 0405	DIODE GMB01-BT	1
D617	407 008 0405	DIODE GMB01-BT	1
C611	403 073 7004	CERAMIC 470P K 50V	1
C612	403 073 7004	CERAMIC 470P K 50V	1
C613	403 049 1708	ELECT 1U M 50V	1
C614	403 049 1708	ELECT 1U M 50V	1
C615	403 050 1308	ELECT 2.2U M 50V	1
C616	403 050 1308	ELECT 2.2U M 50V	1
C617	403 049 1708	ELECT 1U M 50V	1
C618	403 049 1708	ELECT 1U M 50V	1
C619	403 049 5508	ELECT 10U M 50V	1
C620	403 042 3600	ELECT 100U M 16V	1
C621	403 067 6709	MT-COMPO 0.22U J 50V	1
C622	403 067 6709	MT-COMPO 0.22U J 50V	1
C623	403 049 5508	ELECT 10U M 50V	1
C624	403 049 5508	ELECT 10U M 50V	1
C625	403 049 5508	ELECT 10U M 50V	1
C626	403 049 5508	ELECT 10U M 50V	1
C627	403 049 5508	ELECT 10U M 50V	1
C628	403 049 5508	ELECT 10U M 50V	1
C629	403 042 3600	ELECT 100U M 16V	1
C630	403 042 3600	ELECT 100U M 16V	1
C631	403 050 1308	ELECT 2.2U M 50V	1
C632	403 050 1308	ELECT 2.2U M 50V	1
C633	403 050 1308	ELECT 2.2U M 50V	1
C634	403 050 1308	ELECT 2.2U M 50V	1
C635	403 044 0300	ELECT 47U M 16V	1
C636	403 050 3708	ELECT 22U M 50V	1
C637	403 051 2106	ELECT 4.7U M 50V	1
C638	403 051 2106	ELECT 4.7U M 50V	1
C639	403 049 1708	ELECT 1U M 50V	1
C640	403 049 1708	ELECT 1U M 50V	1
C641	403 042 3600	ELECT 100U M 16V	1
C642	403 042 3600	ELECT 100U M 16V	1
C643	403 047 9706	ELECT 0.1U M 50V	1
C644	403 047 9706	ELECT 0.1U M 50V	1
C645	403 049 1708	ELECT 1U M 50V	1
C646	403 049 1708	ELECT 1U M 50V	1
C647	403 050 3708	ELECT 22U M 50V	1
C648	403 050 3708	ELECT 22U M 50V	1
C649	403 050 1308	ELECT 2.2U M 50V	1
C650	403 050 1308	ELECT 2.2U M 50V	1
C651	403 058 3700	POLYESTER 0.015U K 50V	1
C652	403 058 3700	POLYESTER 0.015U K 50V	1
C653	403 063 0503	POLYESTER 6800P K 50V	1
C654	403 063 0503	POLYESTER 6800P K 50V	1
C655	403 057 8003	POLYESTER 0.012U K 50V	1
C656	403 057 8003	POLYESTER 0.012U K 50V	1
C657	403 058 3700	POLYESTER 0.015U K 50V	1
C658	403 058 3700	POLYESTER 0.015U K 50V	1
C659	403 051 2106	ELECT 4.7U M 50V	1
C660	403 051 2106	ELECT 4.7U M 50V	1
R611	401 027 5502	CARBON 6.8K JA 1/6W	1
R612	401 027 5502	CARBON 6.8K JA 1/6W	1
R613	401 027 0309	CARBON 47K JA 1/6W	1
R614	401 024 7400	CARBON 10K JA 1/6W	1
R615	401 025 4606	CARBON 18K JA 1/6W	1
R616	401 017 0807	CARBON 270 JA 1/4W	1
R617	401 027 5908	CARBON 68K JA 1/6W	1
R618	401 027 5908	CARBON 68K JA 1/6W	1
R621	401 026 7002	CARBON 3.9K JA 1/6W	1
R622	401 026 7002	CARBON 3.9K JA 1/6W	1
R623	401 026 7002	CARBON 3.9K JA 1/6W	1
R624	401 026 7002	CARBON 3.9K JA 1/6W	1
R625	401 027 5502	CARBON 6.8K JA 1/6W	1
R626	401 027 5502	CARBON 6.8K JA 1/6W	1
R627	401 027 8602	CARBON 8.2K JA 1/6W	1
R628	401 027 8602	CARBON 8.2K JA 1/6W	1
R629	401 027 5502	CARBON 6.8K JA 1/6W	1
R630	401 027 5502	CARBON 6.8K JA 1/6W	1
R631	401 027 2600	CARBON 5.6K JA 1/6W	1
R632	401 027 2600	CARBON 5.6K JA 1/6W	1
R633	401 026 4308	CARBON 3.3K JA 1/6W	1
R634	401 026 4308	CARBON 3.3K JA 1/6W	1
R635	401 026 4605	CARBON 33K JA 1/6W	1
R636	401 026 4605	CARBON 33K JA 1/6W	1
R637	401 015 1608	CARBON 180 JA 1/4W	1

Ref. No.	Part No.	Description	Q'ty
R638	401 015 1608	CARBON 180 JA 1/4W	1
R639	401 027 2600	CARBON 5.6K JA 1/6W	1
R640	401 027 2600	CARBON 5.6K JA 1/6W	1
R641	401 012 5708	CARBON 1K JA 1/4W	1
R642	401 016 2604	CARBON 220 JA 1/4W	1
R643	401 027 8602	CARBON 8.2K JA 1/6W	1
R644	401 027 8602	CARBON 8.2K JA 1/6W	1
R645	401 027 3003	CARBON 56K JA 1/6W	1
R646	401 027 3003	CARBON 56K JA 1/6W	1
R647	401 027 3003	CARBON 56K JA 1/6W	1
R648	401 027 3003	CARBON 56K JA 1/6W	1
R649	401 027 3003	CARBON 56K JA 1/6W	1
R650	401 027 3003	CARBON 56K JA 1/6W	1
R651	401 027 5908	CARBON 68K JA 1/6W	1
R652	401 027 5908	CARBON 68K JA 1/6W	1
R653	401 025 4606	CARBON 18K JA 1/6W	1
R654	401 025 4606	CARBON 18K JA 1/6W	1
R655	401 025 7409	CARBON 220 JA 1/6W	1
R656	401 025 7409	CARBON 220 JA 1/6W	1
R657	401 012 4503	CARBON 100 JA 1/4W	1
R658	401 012 4503	CARBON 100 JA 1/4W	1
R659	401 024 7400	CARBON 10K JA 1/6W	1
R660	401 024 7400	CARBON 10K JA 1/6W	1
R661	401 026 9907	CARBON 4.7K JA 1/6W	1
R662	401 026 9907	CARBON 4.7K JA 1/6W	1
R663	401 026 9600	CARBON 470 JA 1/6W	1
R664	401 026 9600	CARBON 470 JA 1/6W	1
R665	401 025 0004	CARBON 120K JA 1/6W	1
R666	401 025 0004	CARBON 120K JA 1/6W	1
R667	401 024 9701	CARBON 12K JA 1/6W	1
R668	401 024 9701	CARBON 12K JA 1/6W	1
R669	401 020 8906	CARBON 51K JA 1/4W	1
R670	401 020 8906	CARBON 51K JA 1/4W	1
R671	401 025 4606	CARBON 18K JA 1/6W	1
R672	401 024 7400	CARBON 10K JA 1/6W	1
R673	401 022 1905	CARBON 680 JA 1/4W	1
R674	401 023 1706	CARBON 820 JA 1/4W	1
R675	401 024 7400	CARBON 10K JA 1/6W	1
R676	401 024 7400	CARBON 10K JA 1/6W	1
R677	401 027 9005	CARBON 82K JA 1/6W	1
R678	401 027 9005	CARBON 82K JA 1/6W	1
R679	401 025 8208	CARBON 22K JA 1/6W	1
R680	401 024 7707	CARBON 100K JA 1/6W	1
R681	401 015 3800	CARBON 18K JA 1/4W	1
R682	401 015 3800	CARBON 18K JA 1/4W	1
R683	401 025 4606	CARBON 18K JA 1/6W	1
R684	401 025 4606	CARBON 18K JA 1/6W	1
R685	401 025 0004	CARBON 120K JA 1/6W	1
R686	401 025 0004	CARBON 120K JA 1/6W	1
R687	401 027 0309	CARBON 47K JA 1/6W	1
R688	401 027 0309	CARBON 47K JA 1/6W	1
R689	401 024 9305	CARBON 1.2K JA 1/6W	1
R690	401 024 9305	CARBON 1.2K JA 1/6W	1
R691	401 027 5502	CARBON 6.8K JA 1/6W	1
R692	401 027 5502	CARBON 6.8K JA 1/6W	1
R693	401 025 8703	CARBON 220K JA 1/6W	1
R694	401 025 8703	CARBON 220K JA 1/6W	1
R695	401 026 9907	CARBON 4.7K JA 1/6W	1
R696	401 026 9907	CARBON 4.7K JA 1/6W	1
R697	401 026 1604	CARBON 270K JA 1/6W	1
R698	401 026 1604	CARBON 270K JA 1/6W	1
R699	401 026 3905	CARBON 330 JA 1/6W	1
R700	401 026 3905	CARBON 330 JA 1/6W	1
R701	401 026 6609	CARBON 390 JA 1/6W	1
R702	401 026 6609	CARBON 390 JA 1/6W	1
R703	401 026 1000	CARBON 2.7K JA 1/6W	1
R704	401 026 1000	CARBON 2.7K JA 1/6W	1
R705	401 025 7805	CARBON 2.2K JA 1/6W	1
R706	401 025 7805	CARBON 2.2K JA 1/6W	1
R707	401 025 1605	CARBON 1.5K JA 1/6W	1
R708	401 025 1605	CARBON 1.5K JA 1/6W	1
R709	401 026 7002	CARBON 3.9K JA 1/6W	1
R710	401 026 7002	CARBON 3.9K JA 1/6W	1
R711	401 019 1000	CARBON 390 JA 1/4W	1
R712	401 024 7400	CARBON 10K JA 1/6W	1

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,AMPLIFIER CONTROL			
73	620 204 8451	Assy,PCB,Amplifier Control	1
	620 030 8083	Lamp	3
	620 200 7601	Bracket-E,EQ.PCB	1
	620 200 8202	Reflector,Amplifier Indicator	1
	620 200 8806	Spacer,LED,Power IND.	1
	620 200 8813	Spacer,LED,Remote Control	1
	620 200 8820	Spacer,LED,Phono	1
	620 200 8837	Spacer,EQ.FL	2
	620 196 1935	Converter,QH3111H0	1
CA211	620 203 7981	Assy,Terminal,1P	1
CA301	620 201 6603	Assy,Connector-S,12P	1
CA302	620 201 6610	Assy,Connector-S,10P	1
CA901	620 203 7974	Assy,Terminal,1P	1
FL301	620 198 8017	Fluorescent Tube	1
RA301	620 004 5704	Resistor 13X100K	1
RA302	620 004 5704	Resistor 13X100K	1
RA303	620 004 5698	Resistor 7X100K	1
RA304	620 004 5698	Resistor 7X100K	1
RA305	620 004 5186	Resistor 9X10K J	1
RA306	620 004 5186	Resistor 9X10K J	1
SH301	620 200 2620	Socket,Holder,3P	1
SH302	620 200 2620	Socket,Holder,3P	1
SH303	620 200 2583	Socket,Holder,6P	1
SH304	620 201 0397	Socket,Holder,4P	1
S301	620 201 2353	Switch,Tact 160G (64Hz UP)	1
S302	620 201 2353	Switch,Tact 160G (160Hz UP)	1
S303	620 201 2353	Switch,Tact 160G (400Hz UP)	1
S304	620 201 2353	Switch,Tact 160G (1kHz UP)	1
S305	620 201 2353	Switch,Tact 160G (2.5kHz UP)	1
S306	620 201 2353	Switch,Tact 160G (6.3kHz UP)	1
S307	620 201 2353	Switch,Tact 160G (16kHz UP)	1
S308	620 201 2353	Switch,Tact 160G (FLAT)	1
S309	620 201 2353	Switch,Tact 160G (SURROUND)	1
S310	620 201 2353	Switch,Tact 160G (64Hz DOWN)	1
S311	620 201 2353	Switch,Tact 160G (160Hz DOWN)	1
S312	620 201 2353	Switch,Tact 160G (400Hz DOWN)	1
S313	620 201 2353	Switch,Tact 160G (1kHz DOWN)	1
S314	620 201 2353	Switch,Tact 160G (2.5kHz DOWN)	1
S315	620 201 2353	Switch,Tact 160G (6.3kHz DOWN)	1
S316	620 201 2353	Switch,Tact 160G (16kHz DOWN)	1
S317	620 201 2353	Switch,Tact 160G (WAKE UP)	1
S318	620 201 2353	Switch,Tact 160G (CAR STEREO)	1
S319	620 201 2353	Switch,Tact 160G (MODE)	1
S320	620 201 2353	Switch,Tact 160G (PRESET-A)	1
S321	620 201 2353	Switch,Tact 160G (PRESET-B)	1
S322	620 201 2353	Switch,Tact 160G (PRESET-C)	1
S323	620 201 2353	Switch,Tact 160G (PRESET-D)	1
S324	620 201 2353	Switch,Tact 160G (PRESET-E)	1
S325	620 201 2353	Switch,Tact 160G (DISPLAY)	1
S326	620 201 2353	Switch,Tact 160G (MEMORY)	1
S327	620 201 2353	Switch,Tact 160G (HEADPHONE)	1
S328	620 201 2353	Switch,Tact 160G (POWER)	1
S329	620 201 2353	Switch,Tact 160G (AUX)	1
S330	620 201 2353	Switch,Tact 160G (TUNER)	1
S331	620 201 2353	Switch,Tact 160G (CD)	1
S332	620 201 2353	Switch,Tact 160G (DAT/VCR)	1
S333	620 201 2353	Switch,Tact 160G (TAPE)	1
S334	620 201 2353	Switch,Tact 160G (PHONO)	1
S335	620 201 2353	Switch,Tact 160G (EQ REC)	1
VR301	620 190 9654	Potentiometer 1KB	1
VR302	620 190 9654	Potentiometer 1KB	1
VR303	620 190 9661	VR 50KW	1
W301	620 201 6627	Wire,3P	1
W302	620 201 6634	Wire,3P	1
W303	620 201 6658	Wire,6P	1
W304	620 201 6641	Wire,4P	1
X301	620 026 9193	Ceramic Resonator	1
IC301	409 213 2106	IC LC6538D-4334	1
IC302	409 121 1505	IC L78LR05E-MA	1
IC303	409 088 5806	IC LC7565	1
IC304	409 088 5806	IC LC7565	1
IC305	409 143 7004	IC BA14741	1
IC306	409 143 7004	IC BA14741	1
IC307	409 143 7004	IC BA14741	1
IC308	409 143 7004	IC BA14741	1
IC309	409 021 0301	IC LC4913	1
or	409 207 1405	IC MLC4013B	1
IC310	409 207 1207	IC MLC4011B	1

Ref. No.	Part No.	Description	Q'ty
Q301	405 024 9907	TR 2SD734-F	1
or	405 025 0200	TR 2SD734-G	1
Q302	405 024 9907	TR 2SD734-F	1
or	405 025 0200	TR 2SD734-G	1
Q303	405 024 9907	TR 2SD734-F	1
or	405 025 0200	TR 2SD734-G	1
Q304	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q305	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q306	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q307	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q308	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q309	405 004 0504	TR 2SA1509	1
Q310	405 004 0504	TR 2SA1509	1
Q311	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q312	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q313	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q314	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
Q315	405 004 0504	TR 2SA1509	1
Q316	405 037 0601	TR 2SC3899	1
or	405 035 7305	TR DTC144TF	1
D301	407 005 3805	DIODE DS442-BT	1
D302	407 005 3805	DIODE DS442-BT	1
D303	407 005 3805	DIODE DS442-BT	1
D304	407 005 3805	DIODE DS442-BT	1
D305	407 005 3805	DIODE DS442-BT	1
D306	407 005 3805	DIODE DS442-BT	1
D307	407 005 3805	DIODE DS442-BT	1
D308	407 005 3805	DIODE DS442-BT	1
D309	407 005 3805	DIODE DS442-BT	1
D310	407 104 3201	LED SLP-473B-51	1
D311	407 104 3201	LED SLP-473B-51	1
D312	407 104 3201	LED SLP-473B-51	1
D313	407 028 7903	LED SLP-171E	1
D314	407 104 3201	LED SLP-473B-51	1
D315	407 034 0202	LED SLP-453B	1
D316	407 104 3201	LED SLP-473B-51	1
D317	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D318	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D319	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D320	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D321	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D322	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D323	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D324	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D325	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D326	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D327	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D328	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D329	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D330	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D331	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D332	407 077 3109	DIODE SB0015-03A	1
or	407 008 7305	DIODE MA700A-TA	1
D333	407 008 0405	DIODE GMB01-BT	1
D334	407 008 0405	DIODE GMB01-BT	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D335	407 008 0405	DIODE GMB01-BT	1
D336	407 008 0405	DIODE GMB01-BT	1
D337	407 008 0405	DIODE GMB01-BT	1
D338	407 008 0405	DIODE GMB01-BT	1
D339	407 008 0405	DIODE GMB01-BT	1
D340	407 008 0405	DIODE GMB01-BT	1
D341	407 008 0405	DIODE GMB01-BT	1
D342	407 008 0405	DIODE GMB01-BT	1
D343	407 008 0405	DIODE GMB01-BT	1
D344	407 008 0405	DIODE GMB01-BT	1
D345	407 008 0405	DIODE GMB01-BT	1
D346	407 008 0405	DIODE GMB01-BT	1
D347	407 008 0405	DIODE GMB01-BT	1
D348	407 008 0405	DIODE GMB01-BT	1
D349	407 008 0405	DIODE GMB01-BT	1
D350	407 008 0405	DIODE GMB01-BT	1
D351	407 008 0405	DIODE GMB01-BT	1
C301	403 049 5508	ELECT 10U M 50V	1
C302	403 069 5205	CERAMIC 0.01U K 50V	1
C303	403 067 5603	MT-COMPO 0.1U J 50V	1
C304	403 049 5508	ELECT 10U M 50V	1
C305	403 069 1207	CERAMIC 1000P K 50V	1
C306	403 121 9509	CERAMIC 0.1U Z 50V	1
C307	403 121 9509	CERAMIC 0.1U Z 50V	1
C308	403 039 7901	ELECT 100U M 10V	1
C309	403 121 9509	CERAMIC 0.1U Z 50V	1
C310	403 121 9509	CERAMIC 0.1U Z 50V	1
C311	403 058 0808	POLYESTER 1500P J 50V	1
C312	403 058 0808	POLYESTER 1500P J 50V	1
C313	403 145 3507	ELECT 22U M 25V	1
C314	403 050 3708	ELECT 22U M 50V	1
C315	403 050 3708	ELECT 22U M 50V	1
C316	403 050 3708	ELECT 22U M 50V	1
C317	403 050 3708	ELECT 22U M 50V	1
C318	403 050 3708	ELECT 22U M 50V	1
C319	403 050 3708	ELECT 22U M 50V	1
C320	403 050 3708	ELECT 22U M 50V	1
C321	403 050 3708	ELECT 22U M 50V	1
C322	403 050 3708	ELECT 22U M 50V	1
C323	403 050 3708	ELECT 22U M 50V	1
C324	403 050 3708	ELECT 22U M 50V	1
C325	403 145 3507	ELECT 22U M 25V	1
C326	403 050 3708	ELECT 22U M 50V	1
C327	403 145 3507	ELECT 22U M 25V	1
C328	403 050 3708	ELECT 22U M 50V	1
C329	403 145 3507	ELECT 22U M 25V	1
C330	403 050 3708	ELECT 22U M 50V	1
C331	403 145 3507	ELECT 22U M 25V	1
C332	403 050 3708	ELECT 22U M 50V	1
C333	403 059 6601	POLYESTER 0.022U K 50V	1
C334	403 059 6601	POLYESTER 0.022U K 50V	1
C335	403 059 6601	POLYESTER 0.022U K 50V	1
C336	403 059 6601	POLYESTER 0.022U K 50V	1
C337	403 059 6601	POLYESTER 0.022U K 50V	1
C338	403 059 6601	POLYESTER 0.022U K 50V	1
C339	403 059 6601	POLYESTER 0.022U K 50V	1
C340	403 059 6601	POLYESTER 0.022U K 50V	1
C341	403 061 8709	POLYESTER 4700P K 50V	1
C342	403 061 8709	POLYESTER 4700P K 50V	1
C343	403 061 8709	POLYESTER 4700P K 50V	1
C344	403 061 8709	POLYESTER 4700P K 50V	1
C345	403 059 4102	POLYESTER 2200P K 50V	1
C346	403 059 4102	POLYESTER 2200P K 50V	1
C347	403 059 4102	POLYESTER 2200P K 50V	1
C348	403 059 4102	POLYESTER 2200P K 50V	1
C349	403 062 5608	POLYESTER 5600P K 50V	1
C350	403 062 5608	POLYESTER 5600P K 50V	1
C351	403 062 5608	POLYESTER 5600P K 50V	1
C352	403 062 5608	POLYESTER 5600P K 50V	1
C353	403 059 4102	POLYESTER 2200P K 50V	1
C354	403 059 4102	POLYESTER 2200P K 50V	1
C355	403 059 4102	POLYESTER 2200P K 50V	1
C356	403 059 4102	POLYESTER 2200P K 50V	1
C357	403 059 4102	POLYESTER 2200P K 50V	1
C358	403 059 4102	POLYESTER 2200P K 50V	1
C359	403 059 4102	POLYESTER 2200P K 50V	1
C360	403 059 4102	POLYESTER 2200P K 50V	1
C361	403 045 0606	ELECT 100U M 25V	1
C362	403 045 0606	ELECT 100U M 25V	1
C363	403 045 0606	ELECT 100U M 25V	1
C364	403 045 0606	ELECT 100U M 25V	1
C365	403 049 1708	ELECT 1U M 50V	1
C366	403 049 1708	ELECT 1U M 50V	1
C367	403 068 9402	CERAMIC 100P K 50V	1
C368	403 068 9402	CERAMIC 100P K 50V	1
C369	403 121 9509	CERAMIC 0.1U Z 50V	1
C370	403 069 5205	CERAMIC 0.01U K 50V	1
C371	403 039 7901	ELECT 100U M 10V	1
R50	401 024 7400	CARBON 10K JA 1/6W	1
R1000	401 012 7009	CARBON 10K JA 1/4W	1
R301	401 016 4806	CARBON 22K JA 1/4W	1
R302	401 016 4806	CARBON 22K JA 1/4W	1
R303	401 016 4806	CARBON 22K JA 1/4W	1
R304	401 016 4806	CARBON 22K JA 1/4W	1
R305	401 016 4806	CARBON 22K JA 1/4W	1
R306	401 016 4806	CARBON 22K JA 1/4W	1
R307	401 016 4806	CARBON 22K JA 1/4W	1
R308	401 016 4806	CARBON 22K JA 1/4W	1
R309	401 016 4806	CARBON 22K JA 1/4W	1
R310	401 016 4806	CARBON 22K JA 1/4W	1
R311	401 016 4806	CARBON 22K JA 1/4W	1
R312	401 016 4806	CARBON 22K JA 1/4W	1
R313	401 016 4806	CARBON 22K JA 1/4W	1
R314	401 018 2800	CARBON 330 JA 1/4W	1
R315	401 018 2800	CARBON 330 JA 1/4W	1
R316	401 018 2800	CARBON 330 JA 1/4W	1
R317	401 022 0809	CARBON 68 JA 1/4W	1
R318	401 018 2800	CARBON 330 JA 1/4W	1
R319	401 018 3807	CARBON 3.3K JA 1/4W	1
R320	401 018 2800	CARBON 330 JA 1/4W	1
R321	401 018 2800	CARBON 330 JA 1/4W	1
R325	401 024 7400	CARBON 10K JA 1/6W	1
R326	401 024 7400	CARBON 10K JA 1/6W	1
R327	401 024 7400	CARBON 10K JA 1/6W	1
R328	402 015 6402	FUSIBLE RES 2.2 J- 1/4W	1
R329	402 015 6402	FUSIBLE RES 2.2 J- 1/4W	1
R330	402 015 6402	FUSIBLE RES 2.2 J- 1/4W	1
R331	401 012 7009	CARBON 10K JA 1/4W	1
R332	401 025 8208	CARBON 22K JA 1/6W	1
R333	401 024 7400	CARBON 10K JA 1/6W	1
R334	401 012 7009	CARBON 10K JA 1/4W	1
R335	401 024 7400	CARBON 10K JA 1/6W	1
R336	401 024 7400	CARBON 10K JA 1/6W	1
R337	401 026 9600	CARBON 470 JA 1/6W	1
R338	401 027 9005	CARBON 82K JA 1/6W	1
R339	401 024 7707	CARBON 100K JA 1/6W	1
R340	401 016 4806	CARBON 22K JA 1/4W	1
R341	401 016 3809	CARBON 2.2K JA 1/4W	1
R342	401 024 7400	CARBON 10K JA 1/6W	1
R343	401 025 4606	CARBON 18K JA 1/6W	1
R344	401 025 4606	CARBON 18K JA 1/6W	1
R345	401 024 7707	CARBON 100K JA 1/6W	1
R346	401 024 7707	CARBON 100K JA 1/6W	1
R347	401 024 7707	CARBON 100K JA 1/6W	1
R348	401 024 7707	CARBON 100K JA 1/6W	1
R349	401 025 7409	CARBON 220 JA 1/6W	1
R350	401 025 7409	CARBON 220 JA 1/6W	1
R351	401 025 7409	CARBON 220 JA 1/6W	1
R352	401 025 7409	CARBON 220 JA 1/6W	1
R353	401 025 7409	CARBON 220 JA 1/6W	1
R354	401 025 7409	CARBON 220 JA 1/6W	1
R355	401 025 7409	CARBON 220 JA 1/6W	1
R356	401 025 7409	CARBON 220 JA 1/6W	1
R357	401 025 7409	CARBON 220 JA 1/6W	1
R358	401 025 7409	CARBON 220 JA 1/6W	1
R359	401 025 7409	CARBON 220 JA 1/6W	1
R360	401 025 7409	CARBON 220 JA 1/6W	1
R361	401 025 7409	CARBON 220 JA 1/6W	1
R362	401 025 7409	CARBON 220 JA 1/6W	1
R363	401 025 7409	CARBON 220 JA 1/6W	1
R364	401 025 7409	CARBON 220 JA 1/6W	1
R365	401 028 0506	CARBON 910K JA 1/6W	1
R366	401 028 0506	CARBON 910K JA 1/6W	1
R367	401 025 3302	CARBON 16K JA 1/6W	1
R368	401 025 3302	CARBON 16K JA 1/6W	1
R369	401 025 2305	CARBON 150K JA 1/6W	1
R370	401 025 2305	CARBON 150K JA 1/6W	1
R371	401 026 6302	CARBON 360K JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R372	401 026 6302	CARBON 360K JA 1/6W	1
R373	401 027 4307	CARBON 6.2K JA 1/6W	1
R374	401 027 4307	CARBON 6.2K JA 1/6W	1
R375	401 027 4604	CARBON 62K JA 1/6W	1
R376	401 027 4604	CARBON 62K JA 1/6W	1
R377	401 027 6103	CARBON 680K JA 1/6W	1
R378	401 027 6103	CARBON 680K JA 1/6W	1
R379	401 024 9701	CARBON 12K JA 1/6W	1
R380	401 024 9701	CARBON 12K JA 1/6W	1
R381	401 024 8704	CARBON 110K JA 1/6W	1
R382	401 024 8704	CARBON 110K JA 1/6W	1
R383	401 027 3201	CARBON 560K JA 1/6W	1
R384	401 027 3201	CARBON 560K JA 1/6W	1
R385	401 024 7400	CARBON 10K JA 1/6W	1
R386	401 024 7400	CARBON 10K JA 1/6W	1
R387	401 028 0308	CARBON 91K JA 1/6W	1
R388	401 028 0308	CARBON 91K JA 1/6W	1
R389	401 028 0308	CARBON 91K JA 1/6W	1
R390	401 028 0308	CARBON 91K JA 1/6W	1
R391	401 025 3005	CARBON 1.6K JA 1/6W	1
R392	401 025 3005	CARBON 1.6K JA 1/6W	1
R393	401 025 1902	CARBON 15K JA 1/6W	1
R394	401 025 1902	CARBON 15K JA 1/6W	1
R395	401 028 0308	CARBON 91K JA 1/6W	1
R396	401 028 0308	CARBON 91K JA 1/6W	1
R397	401 025 3005	CARBON 1.6K JA 1/6W	1
R398	401 025 3005	CARBON 1.6K JA 1/6W	1
R399	401 025 1902	CARBON 15K JA 1/6W	1
R400	401 025 1902	CARBON 15K JA 1/6W	1
R401	401 026 6104	CARBON 36K JA 1/6W	1
R402	401 026 6104	CARBON 36K JA 1/6W	1
R403	401 027 4000	CARBON 620 JA 1/6W	1
R404	401 027 4000	CARBON 620 JA 1/6W	1
R405	401 027 4307	CARBON 6.2K JA 1/6W	1
R406	401 027 4307	CARBON 6.2K JA 1/6W	1
R407	401 020 0801	CARBON 470 JA 1/4W	1
R408	401 020 0801	CARBON 470 JA 1/4W	1
R409	401 020 0801	CARBON 470 JA 1/4W	1
R410	401 020 0801	CARBON 470 JA 1/4W	1
R411	401 026 4308	CARBON 3.3K JA 1/6W	1
R412	401 026 4308	CARBON 3.3K JA 1/6W	1
R413	401 027 0309	CARBON 47K JA 1/6W	1
R414	401 027 0309	CARBON 47K JA 1/6W	1
R415	401 027 0309	CARBON 47K JA 1/6W	1
R416	401 027 0309	CARBON 47K JA 1/6W	1
R417	401 024 7004	CARBON 1K JA 1/6W	1
R418	401 024 7004	CARBON 1K JA 1/6W	1
R419	401 027 0309	CARBON 47K JA 1/6W	1
R420	401 027 0309	CARBON 47K JA 1/6W	1
R421	401 027 0309	CARBON 47K JA 1/6W	1
R422	401 027 0309	CARBON 47K JA 1/6W	1
R423	401 024 7400	CARBON 10K JA 1/6W	1
R424	401 024 7400	CARBON 10K JA 1/6W	1
R425	401 012 7009	CARBON 10K JA 1/4W	1
R427	401 024 7707	CARBON 100K JA 1/6W	1
R428	401 024 7707	CARBON 100K JA 1/6W	1
R429	401 024 7707	CARBON 100K JA 1/6W	1
R430	401 024 7707	CARBON 100K JA 1/6W	1
R991	401 024 7707	CARBON 100K JA 1/6W	1
R992	401 024 7707	CARBON 100K JA 1/6W	1
R993	401 024 7707	CARBON 100K JA 1/6W	1
R994	401 024 7707	CARBON 100K JA 1/6W	1
R995	401 012 8105	CARBON 100K JA 1/4W	1
R996	401 024 7707	CARBON 100K JA 1/6W	1
R997	401 012 7009	CARBON 10K JA 1/4W	1
R998	401 012 7009	CARBON 10K JA 1/4W	1
R999	401 024 7400	CARBON 10K JA 1/6W	1

ASSY,PCB,MAIN POWER

Ref. No.	Part No.	Description	Q'ty
74	620 205 6227	Assy,PCB,Main Power	1
	620 017 1977	Pin Jack 4P	2
	620 017 2721	Fuse Clip	12
	620 187 4044	Push Terminal 8P	1
	411 020 8004	SCR S-TPG BRZ 3X8	4
	411 002 8602	SCR PAN 3X6	1
	620 053 9012	Plate Heat Sink	2
	620 053 9036	Plate Heat Sink	1
CA31	620 202 9320	Assy,Terminal,1P	1
CN301	620 022 0132	Plug 12P	1
CN302	620 021 8344	Plug 10P	1
CN31	620 021 6548	Plug 2P	1
CN431	620 201 6665	Plug,5P	1
CN432	620 201 6665	Plug,5P	1
CN433	620 201 6665	Plug,5P	1
CN434	620 201 6696	Plug,8P	1
CN435	620 201 6665	Plug,5P	1
CN436	620 021 8405	Plug 8P	1
CN437	620 201 6689	Plug,6P	1
CN438	620 021 8337	Plug 6P	1
CN441	620 182 8955	Plug 3P	1
CN971	620 201 6443	Socket,Jumper,3P	1
CN995	620 191 6249	Plug 9P	1
C508	620 201 4241	Capacitor,4700U 50V	1
or	620 201 4272	Capacitor,4700U 50V	1
C509	620 201 4241	Capacitor,4700U 50V	1
or	620 201 4272	Capacitor,4700U 50V	1
F431	⚠ 423 006 8700	FUSE 250V T3.15A	1
F432	⚠ 423 006 8700	FUSE 250V T3.15A	1
F433	⚠ 423 007 2103	FUSE 250V T4A	1
F434	⚠ 423 007 2103	FUSE 250V T4A	1
F435	⚠ 423 005 5205	FUSE 250V T1.6A	1
F436	⚠ 423 005 5205	FUSE 250V T1.6A	1
L431	620 026 5447	RF Filter	1
L432	620 026 5447	RF Filter	1
RY431	620 188 2483	Relay	1
SH431	620 200 2637	Socket,Holder,5P	1
SJ301	620 020 4729	Socket Jumper 3P	1
SJ304	620 201 6450	Socket,Jumper,4P	1
SJ439	620 201 6443	Socket,Jumper,3P	1
SJ440	620 201 6467	Socket,Jumper,5P	1
W431	620 201 6900	Wire,5P	1
IC431	409 067 2109	IC STK4162MK2	1
IC432	409 109 5303	IC LC7823	1
IC433	409 109 5303	IC LC7823	1
IC434	409 018 4909	IC LA6458S	1
IC435	409 018 4909	IC LA6458S	1
IC436	409 018 4909	IC LA6458S	1
IC437	409 018 4909	IC LA6458S	1
IC438	409 026 8500	IC L78M05	1
IC439	409 195 0503	IC NJM78M18FA	1
IC440	409 199 7300	IC NJM79M18FA	1
IC441	409 078 1504	IC L78M15ML	1
Q431	405 039 5802	TR 2SC3792	1
Q432	405 039 5802	TR 2SC3792	1
Q433	405 018 2600	TR 2SC3400-AC	1
Q434	405 018 2600	TR 2SC3400-AC	1
Q435	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q436	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q437	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q438	405 019 3903	TR 2SC536-G-SPA-AC	1
or	405 019 4702	TR 2SC536-H-SPA-AC	1
Q439	405 035 7107	TR 2SD1913-R	1
or	405 035 7206	TR 2SD1913-S	1
Q440	405 008 4805	TR 2SB764-E	1
or	405 008 4904	TR 2SB764-F	1
D431	407 004 9105	DIODE DSF10C-BT	1
or	407 096 5504	DIODE RL1N4003-E	1
D432	407 050 5502	ZENER DIODE GZA5.6Y-BT	1
D433	407 049 6305	ZENER DIODE GZA12Y-BT	1
D434	407 050 7704	ZENER DIODE GZA9.1Y	1
D435	407 050 2204	ZENER DIODE GZA30Y-BT	1
D436	407 004 9105	DIODE DSF10C-BT	1
D437	407 004 9105	DIODE DSF10C-BT	1
D438	407 092 3900	DIODE DSB15TC-KC5	1
D439	407 092 3900	DIODE DSB15TC-KC5	1
D440	407 092 4105	DIODE DSA20TC-KD3	1
D441	407 092 4105	DIODE DSA20TC-KD3	1
D442	407 092 4105	DIODE DSA20TC-KD3	1
D443	407 092 4105	DIODE DSA20TC-KD3	1
C431	403 073 7004	CERAMIC 470P K 50V	1
C432	403 073 7004	CERAMIC 470P K 50V	1
C433	403 051 2106	ELECT 4.7U M 50V	1
C434	403 051 2106	ELECT 4.7U M 50V	1
C435	403 026 2209	CERAMIC 47P J 50V	1
C436	403 026 2209	CERAMIC 47P J 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
R507	401 020 2003	CARBON	4.7K	JA	1/4W	1
R508	401 020 2003	CARBON	4.7K	JA	1/4W	1
R509	401 024 7707	CARBON	100K	JA	1/6W	1
R510	401 024 7707	CARBON	100K	JA	1/6W	1
R511	401 027 3003	CARBON	56K	JA	1/6W	1
R512	401 027 3003	CARBON	56K	JA	1/6W	1
R513	401 021 1906	CARBON	560	JA	1/4W	1
R514	401 021 1906	CARBON	560	JA	1/4W	1
R515	401 021 4105	CARBON	56K	JA	1/4W	1
R516	401 021 4105	CARBON	56K	JA	1/4W	1
R517	401 016 3809	CARBON	2.2K	JA	1/4W	1
R518	401 016 3809	CARBON	2.2K	JA	1/4W	1
R519	401 055 5703	OXIDE-MT	2.2K	JB	1/2W	1
R520	401 055 5703	OXIDE-MT	2.2K	JB	1/2W	1
R521	402 016 4605	FUSIBLE RES	100	J-	1/2W	1
R522	402 016 4605	FUSIBLE RES	100	J-	1/2W	1
R523	401 012 7009	CARBON	10K	JA	1/4W	1
R524	401 012 7009	CARBON	10K	JA	1/4W	1
R525	401 027 9005	CARBON	82K	JA	1/6W	1
R526	401 027 9005	CARBON	82K	JA	1/6W	1
R527	401 012 7009	CARBON	10K	JA	1/4W	1
R528	401 024 7400	CARBON	10K	JA	1/6W	1
R529	401 061 9009	OXIDE-MT	4.7	JB	1W	1
R530	401 061 9009	OXIDE-MT	4.7	JB	1W	1
R531	401 058 2600	OXIDE-MT	100	JB	1W	1
R532	401 058 2600	OXIDE-MT	100	JB	1W	1
R533	401 024 7400	CARBON	10K	JA	1/6W	1
R534	401 025 7805	CARBON	2.2K	JA	1/6W	1
R535	401 024 7400	CARBON	10K	JA	1/6W	1
R536	401 012 7009	CARBON	10K	JA	1/4W	1
R537	401 012 5708	CARBON	1K	JA	1/4W	1
R538	401 024 7004	CARBON	1K	JA	1/6W	1
R539	401 024 7707	CARBON	100K	JA	1/6W	1
R540	401 024 7707	CARBON	100K	JA	1/6W	1
R543	401 026 4605	CARBON	33K	JA	1/6W	1
R544	401 026 4605	CARBON	33K	JA	1/6W	1
R545	401 025 6501	CARBON	20K	JA	1/6W	1
R546	401 025 6501	CARBON	20K	JA	1/6W	1
R547	401 026 4605	CARBON	33K	JA	1/6W	1
R548	401 026 4605	CARBON	33K	JA	1/6W	1
R549	401 025 7805	CARBON	2.2K	JA	1/6W	1
R550	401 025 7805	CARBON	2.2K	JA	1/6W	1
R551	401 017 0807	CARBON	270	JA	1/4W	1
R552	401 026 0607	CARBON	270	JA	1/6W	1
R553	401 027 5908	CARBON	68K	JA	1/6W	1
R554	401 027 5908	CARBON	68K	JA	1/6W	1
R555	401 102 9401	OXIDE-MT	0.22	JB	1W	1
R556	401 014 4105	CARBON	1.5K	JA	1/4W	1
R558	401 063 0202	OXIDE-MT	68	JB	1W	1
R559	401 063 0202	OXIDE-MT	68	JB	1W	1
R560	401 020 2003	CARBON	4.7K	JA	1/4W	1
R561	401 024 7400	CARBON	10K	JA	1/6W	1
R562	401 025 7805	CARBON	2.2K	JA	1/6W	1
R955	401 024 7004	CARBON	1K	JA	1/6W	1
R956	401 012 7009	CARBON	10K	JA	1/4W	1
R957	401 012 7009	CARBON	10K	JA	1/4W	1
R971	401 061 2604	OXIDE-MT	330	JB	1W	1
R972	401 061 2604	OXIDE-MT	330	JB	1W	1
R973	401 018 1605	CARBON	33	JA	1/4W	1

ASSY,PCB,GRAPHIC EQ.

Ref. No.	Part No.	Description				Q'ty
75	620 201 4609	Assy,PCB,Graphic EQ.				1
CN551	620 201 6702	Socket,5P				1
CN552	620 201 6702	Socket,5P				1
RA551	620 004 5711	Resistor 8X1M				1
RA552	620 004 5711	Resistor 8X1M				1
IC551	409 143 7004	IC BA14741				1
IC552	409 143 7004	IC BA14741				1
IC553	409 143 7004	IC BA14741				1
IC554	409 143 7004	IC BA14741				1
IC555	409 088 4007	IC LC7522				1
D551	407 050 6509	ZENER DIODE GZA6.8X-BT				1
D552	407 050 6509	ZENER DIODE GZA6.8X-BT				1
D553	407 008 0405	DIODE GMB01-BT				1
C551	403 051 2106	ELECT	4.7U	M	50V	1
C552	403 051 2106	ELECT	4.7U	M	50V	1
C553	403 049 5508	ELECT	10U	M	50V	1
C554	403 049 5508	ELECT	10U	M	50V	1
C555	403 039 7901	ELECT	100U	M	10V	1
C556	403 039 7901	ELECT	100U	M	10V	1
C557	403 056 8608	POLYESTER	1000P	K	50V	1
C558	403 056 8608	POLYESTER	1000P	K	50V	1
C559	403 058 8606	POLYESTER	1800P	K	50V	1
C560	403 058 8606	POLYESTER	1800P	K	50V	1
C561	403 061 2608	POLYESTER	3900P	K	50V	1
C562	403 061 2608	POLYESTER	3900P	K	50V	1
C563	403 063 0503	POLYESTER	6800P	K	50V	1
C564	403 063 0503	POLYESTER	6800P	K	50V	1
C565	403 059 0401	POLYESTER	0.018U	K	50V	1
C566	403 059 0401	POLYESTER	0.018U	K	50V	1
C567	403 067 7409	MT-COMPO	0.039U	J	50V	1
C568	403 067 7409	MT-COMPO	0.039U	J	50V	1
C569	403 067 7706	MT-COMPO	0.047U	J	50V	1
C570	403 067 7706	MT-COMPO	0.047U	J	50V	1
C571	403 059 4102	POLYESTER	2200P	K	50V	1
C572	403 059 4102	POLYESTER	2200P	K	50V	1
C573	403 061 8709	POLYESTER	4700P	K	50V	1
C574	403 061 8709	POLYESTER	4700P	K	50V	1
C575	403 057 8003	POLYESTER	0.012U	K	50V	1
C576	403 057 8003	POLYESTER	0.012U	K	50V	1
C577	403 060 8700	POLYESTER	0.033U	K	50V	1
C578	403 060 8700	POLYESTER	0.033U	K	50V	1
C579	403 067 8406	MT-COMPO	0.082U	J	50V	1
C580	403 067 8406	MT-COMPO	0.082U	J	50V	1
C581	403 067 6709	MT-COMPO	0.22U	J	50V	1
C582	403 067 6709	MT-COMPO	0.22U	J	50V	1
C583	403 067 7805	MT-COMPO	0.47U	J	50V	1
C584	403 067 7805	MT-COMPO	0.47U	J	50V	1
C585	403 044 0300	ELECT	47U	M	16V	1
C586	403 069 5205	CERAMIC	0.01U	K	50V	1
C587	403 047 4305	ELECT	47U	M	25V	1
C588	403 047 4305	ELECT	47U	M	25V	1
C589	403 047 4305	ELECT	47U	M	25V	1
C590	403 047 4305	ELECT	47U	M	25V	1
C591	403 047 4305	ELECT	47U	M	25V	1
C592	403 047 4305	ELECT	47U	M	25V	1
R563	401 025 1605	CARBON	1.5K	JA	1/6W	1
R564	401 025 1605	CARBON	1.5K	JA	1/6W	1
R565	401 025 1605	CARBON	1.5K	JA	1/6W	1
R566	401 025 1605	CARBON	1.5K	JA	1/6W	1
R567	401 026 9006	CARBON	43K	JA	1/6W	1
R568	401 026 9006	CARBON	43K	JA	1/6W	1
R569	401 024 7004	CARBON	1K	JA	1/6W	1
R570	401 024 7004	CARBON	1K	JA	1/6W	1
R571	401 027 7407	CARBON	75K	JA	1/6W	1
R572	401 027 7407	CARBON	75K	JA	1/6W	1
R573	401 024 7004	CARBON	1K	JA	1/6W	1
R574	401 024 7004	CARBON	1K	JA	1/6W	1
R575	401 027 9005	CARBON	82K	JA	1/6W	1
R576	401 027 9005	CARBON	82K	JA	1/6W	1
R577	401 024 7004	CARBON	1K	JA	1/6W	1
R578	401 024 7004	CARBON	1K	JA	1/6W	1
R579	401 024 8704	CARBON	110K	JA	1/6W	1
R580	401 024 8704	CARBON	110K	JA	1/6W	1
R581	401 024 7004	CARBON	1K	JA	1/6W	1
R582	401 024 7004	CARBON	1K	JA	1/6W	1
R583	401 024 8704	CARBON	110K	JA	1/6W	1
R584	401 024 8704	CARBON	110K	JA	1/6W	1
R585	401 024 7004	CARBON	1K	JA	1/6W	1
R586	401 024 7004	CARBON	1K	JA	1/6W	1
R587	401 025 0004	CARBON	120K	JA	1/6W	1
R588	401 025 0004	CARBON	120K	JA	1/6W	1
R589	401 024 7004	CARBON	1K	JA	1/6W	1
R590	401 024 7004	CARBON	1K	JA	1/6W	1
R591	401 026 1604	CARBON	270K	JA	1/6W	1
R592	401 026 1604	CARBON	270K	JA	1/6W	1
R593	401 024 7004	CARBON	1K	JA	1/6W	1
R594	401 024 7004	CARBON	1K	JA	1/6W	1
R595	401 024 7707	CARBON	100K	JA	1/6W	1
R596	401 012 8105	CARBON	100K	JA	1/4W	1
R597	401 025 1902	CARBON	15K	JA	1/6W	1
R598	401 025 1902	CARBON	15K	JA	1/6W	1
R599	401 025 1902	CARBON	15K	JA	1/6W	1
R600	401 025 1902	CARBON	15K	JA	1/6W	1
R601	401 024 7707	CARBON	100K	JA	1/6W	1
R602	401 024 7707	CARBON	100K	JA	1/6W	1
R603	402 015 3906	FUSIBLE RES	22	J-	1/4W	1
R604	402 015 3906	FUSIBLE RES	22	J-	1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description				Q'ty
C437	403 044 0300	ELECT	47U	M	16V	1
C438	403 044 0300	ELECT	47U	M	16V	1
C439	403 059 0401	POLYESTER	0.018U	K	50V	1
C440	403 059 0401	POLYESTER	0.018U	K	50V	1
C441	403 061 8709	POLYESTER	4700P	K	50V	1
C442	403 061 8709	POLYESTER	4700P	K	50V	1
C443	403 049 1708	ELECT	1U	M	50V	1
C444	403 049 1708	ELECT	1U	M	50V	1
C445	403 047 4305	ELECT	47U	M	25V	1
C446	403 047 4305	ELECT	47U	M	25V	1
C447	403 047 4305	ELECT	47U	M	25V	1
C448	403 047 4305	ELECT	47U	M	25V	1
C449	403 051 2106	ELECT	4.7U	M	50V	1
C450	403 051 2106	ELECT	4.7U	M	50V	1
C451	403 049 5508	ELECT	10U	M	50V	1
C452	403 049 5508	ELECT	10U	M	50V	1
C453	403 069 5205	CERAMIC	0.01U	K	50V	1
C454	403 049 5508	ELECT	10U	M	50V	1
C455	403 069 0705	CERAMIC	1000P	K	50V	1
C456	403 049 5508	ELECT	10U	M	50V	1
C457	403 069 5205	CERAMIC	0.01U	K	50V	1
C458	403 047 9706	ELECT	0.1U	M	50V	1
C459	403 069 5205	CERAMIC	0.01U	K	50V	1
C460	403 049 5508	ELECT	10U	M	50V	1
C461	403 049 5508	ELECT	10U	M	50V	1
C462	403 069 5205	CERAMIC	0.01U	K	50V	1
C463	403 047 9706	ELECT	0.1U	M	50V	1
C464	403 045 0606	ELECT	100U	M	25V	1
C465	403 051 2106	ELECT	4.7U	M	50V	1
C466	403 051 2106	ELECT	4.7U	M	50V	1
C467	403 045 0606	ELECT	100U	M	25V	1
C468	403 045 0606	ELECT	100U	M	25V	1
C471	403 051 2106	ELECT	4.7U	M	50V	1
C472	403 051 2106	ELECT	4.7U	M	50V	1
C473	403 070 4105	CERAMIC	120P	K	50V	1
C474	403 070 4105	CERAMIC	120P	K	50V	1
C475	403 050 3708	ELECT	22U	M	50V	1
C476	403 050 3708	ELECT	22U	M	50V	1
C477	403 045 0606	ELECT	100U	M	25V	1
C478	403 049 5508	ELECT	10U	M	50V	1
C479	403 073 7004	CERAMIC	470P	K	50V	1
C480	403 073 7004	CERAMIC	470P	K	50V	1
C481	403 050 1308	ELECT	2.2U	M	50V	1
C482	403 050 1308	ELECT	2.2U	M	50V	1
C483	403 068 9402	CERAMIC	100P	K	50V	1
C484	403 068 9402	CERAMIC	100P	K	50V	1
C485	403 039 7901	ELECT	100U	M	10V	1
C486	403 039 7901	ELECT	100U	M	10V	1
C487	403 051 3905	ELECT	47U	M	50V	1
C488	403 051 3905	ELECT	47U	M	50V	1
C489	403 051 3905	ELECT	47U	M	50V	1
C490	403 051 3905	ELECT	47U	M	50V	1
C491	403 051 3905	ELECT	47U	M	50V	1
C492	403 121 0704	ELECT	100U	M	63V	1
C493	403 067 5603	MT-COMPO	0.1U	J	50V	1
C494	403 067 5603	MT-COMPO	0.1U	J	50V	1
C495	403 063 0503	POLYESTER	6800P	K	50V	1
C496	403 063 0503	POLYESTER	6800P	K	50V	1
C497	403 045 0606	ELECT	100U	M	25V	1
C498	403 045 9104	ELECT	220U	M	25V	1
C499	403 046 4603	ELECT	33U	M	25V	1
C500	403 045 9104	ELECT	220U	M	25V	1
C501	403 074 2701	CERAMIC	0.047U	Z	50V	1
C502	403 040 4807	ELECT	220U	M	10V	1
C503	403 074 2701	CERAMIC	0.047U	Z	50V	1
C504	403 045 9104	ELECT	220U	M	25V	1
C505	403 050 3708	ELECT	22U	M	50V	1
C506	403 045 9104	ELECT	220U	M	25V	1
C507	403 050 3708	ELECT	22U	M	50V	1
C510	404 012 7000	CERAMIC	0.01U	P	500V	1
C511	404 012 7000	CERAMIC	0.01U	P	500V	1
C512	404 012 7000	CERAMIC	0.01U	P	500V	1
C513	404 012 7000	CERAMIC	0.01U	P	500V	1
C514	404 012 7000	CERAMIC	0.01U	P	500V	1
C515	404 012 7000	CERAMIC	0.01U	P	500V	1
C516	403 053 8908	ELECT	3300U	M	35V	1
C517	403 052 8107	ELECT	100U	M	35V	1
C518	404 012 7000	CERAMIC	0.01U	P	500V	1
C519	404 012 7000	CERAMIC	0.01U	P	500V	1
C520	403 121 0704	ELECT	100U	M	63V	1
C521	403 050 3708	ELECT	22U	M	50V	1
C522	403 054 1304	ELECT	47U	M	35V	1
R431	401 016 3809	CARBON	2.2K	JA	1/4W	1
R432	401 016 3809	CARBON	2.2K	JA	1/4W	1
R433	401 024 7707	CARBON	100K	JA	1/6W	1
R434	401 024 7707	CARBON	100K	JA	1/6W	1
R435	401 024 7707	CARBON	100K	JA	1/6W	1
R436	401 024 7707	CARBON	100K	JA	1/6W	1
R437	401 026 0607	CARBON	270	JA	1/6W	1
R438	401 026 0607	CARBON	270	JA	1/6W	1
R439	401 025 8703	CARBON	220K	JA	1/6W	1
R440	401 025 8703	CARBON	220K	JA	1/6W	1
R441	401 025 1902	CARBON	15K	JA	1/6W	1
R442	401 025 1902	CARBON	15K	JA	1/6W	1
R443	401 027 3003	CARBON	56K	JA	1/6W	1
R444	401 027 3003	CARBON	56K	JA	1/6W	1
R445	401 012 5708	CARBON	1K	JA	1/4W	1
R446	401 024 7004	CARBON	1K	JA	1/6W	1
R447	401 026 0607	CARBON	270	JA	1/6W	1
R448	401 026 0607	CARBON	270	JA	1/6W	1
R449	401 017 0807	CARBON	270	JA	1/4W	1
R450	401 017 0807	CARBON	270	JA	1/4W	1
R451	401 012 5708	CARBON	1K	JA	1/4W	1
R452	401 024 7004	CARBON	1K	JA	1/6W	1
R453	401 024 7707	CARBON	100K	JA	1/6W	1
R454	401 024 7707	CARBON	100K	JA	1/6W	1
R455	401 024 7707	CARBON	100K	JA	1/6W	1
R456	401 024 7707	CARBON	100K	JA	1/6W	1
R457	401 026 4605	CARBON	33K	JA	1/6W	1
R458	401 026 4605	CARBON	33K	JA	1/6W	1
R459	401 012 4503	CARBON	100	JA	1/4W	1
R460	401 024 6700	CARBON	100	JA	1/6W	1
R461	401 024 7004	CARBON	1K	JA	1/6W	1
R462	401 024 7004	CARBON	1K	JA	1/6W	1
R463	401 026 7408	CARBON	39K	JA	1/6W	1
R464	401 026 7408	CARBON	39K	JA	1/6W	1
R465	401 024 7004	CARBON	1K	JA	1/6W	1
R466	401 012 5708	CARBON	1K	JA	1/4W	1
R467	401 026 7408	CARBON	39K	JA	1/6W	1
R468	401 026 7408	CARBON	39K	JA	1/6W	1
R469	401 024 7400	CARBON	10K	JA	1/6W	1
R470	401 012 7009	CARBON	10K	JA	1/4W	1
R471	401 019 3004	CARBON	39K	JA	1/4W	1
R472	401 026 7408	CARBON	39K	JA	1/6W	1
R473	401 024 7004	CARBON	1K	JA	1/6W	1
R474	401 024 7004	CARBON	1K	JA	1/6W	1
R475	401 026 7408	CARBON	39K	JA	1/6W	1
R476	401 026 7408	CARBON	39K	JA	1/6W	1
R477	401 024 7004	CARBON	1K	JA	1/6W	1
R478	401 024 7004	CARBON	1K	JA	1/6W	1
R479	401 026 7606	CARBON	390K	JA	1/6W	1
R480	401 026 7606	CARBON	390K	JA	1/6W	1
R481	401 020 0801	CARBON	470	JA	1/4W	1
R482	401 020 0801	CARBON	470	JA	1/4W	1
R483	402 015 4309	FUSIBLE RES	33	J-	1/4W	1
R484	402 015 4309	FUSIBLE RES	33	J-	1/4W	1
R485	401 024 7707	CARBON	100K	JA	1/6W	1
R486	401 025 8703	CARBON	220K	JA	1/6W	1
R487	401 025 8703	CARBON	220K	JA	1/6W	1
R488	402 015 4309	FUSIBLE RES	33	J-	1/4W	1
R489	402 015 4309	FUSIBLE RES	33	J-	1/4W	1
R490	401 024 7707	CARBON	100K	JA	1/6W	1
R491	401 026 0607	CARBON	270	JA	1/6W	1
R492	401 026 0607	CARBON	270	JA	1/6W	1
R493	401 012 5708	CARBON	1K	JA	1/4W	1
R494	401 012 5708	CARBON	1K	JA	1/4W	1
R495	401 024 7707	CARBON	100K	JA	1/6W	1
R496	401 024 7707	CARBON	100K	JA	1/6W	1
R497	401 024 7707	CARBON	100K	JA	1/6W	1
R498	401 024 7707	CARBON	100K	JA	1/6W	1
R499	401 026 9600	CARBON	470	JA	1/6W	1
R500	401 026 9600	CARBON	470	JA	1/6W	1
R501	401 026 9907	CARBON	4.7K	JA	1/6W	1
R502	401 026 9907	CARBON	4.7K	JA	1/6W	1
R503	401 012 4503	CARBON	100	JA	1/4W	1
R504	401 012 4503	CARBON	100	JA	1/4W	1
R505	401 012 5708	CARBON	1K	JA	1/4W	1
R506	401 012 5708	CARBON	1K	JA	1/4W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
R605	401 027 5502	CARBON 6.8K JA 1/6W	1
R606	401 027 5502	CARBON 6.8K JA 1/6W	1
R607	401 016 3809	CARBON 2.2K JA 1/4W	1
R608	401 016 3809	CARBON 2.2K JA 1/4W	1
ASSY,PCB,DECK SWITCH			
76	620 201 4630	Assy,PCB,Deck Switch	1
	620 200 8851	Spacer,Dolby	1
	620 200 9414	Holder,LED	1
CA751	620 201 6924	Assy,Connector-S,11P	1
CA752	620 201 6931	Assy,Connector-S,6P	1
CA753	620 191 7079	Connector 1P Assy	1
SH751	620 201 6597	Socket,Holder,8P	1
SW751	620 015 1931	Tact Switch (DUBBING)	1
SW752	620 015 1931	Tact Switch (HIGH SPEED)	1
SW753	620 015 1931	Tact Switch (CD REC)	1
SW754	620 015 1931	Tact Switch (TU REC)	1
SW755	620 015 1931	Tact Switch (T1 STOP)	1
SW756	620 015 1931	Tact Switch (T2 STOP)	1
SW757	620 015 1931	Tact Switch (T1 REV)	1
SW758	620 015 1931	Tact Switch (T1 FWD)	1
SW759	620 015 1931	Tact Switch (T2 REV)	1
SW760	620 015 1931	Tact Switch (T2 FWD)	1
SW761	620 015 1931	Tact Switch (REC)	1
SW762	620 015 1931	Tact Switch (PAUSE)	1
SW763	620 015 1931	Tact Switch (T2 REW)	1
SW764	620 015 1931	Tact Switch (T2 FF)	1
SW765	620 015 1931	Tact Switch (T1 REW)	1
SW766	620 015 1931	Tact Switch (T1 FF)	1
SW767	620 015 3898	Slide Switch 2P2T (DIRECTION MODE)	1
SW768	620 016 6423	Slide Switch 2P3T (DOLBY NR)	1
VR751	620 201 6955	VR,Slide,2X50KA (INPUT LEVEL)	1
W751	620 201 6948	Wire,8P	1
D751	407 005 3805	DIODE DS442-BT	1
D752	407 008 0405	DIODE GMB01-BT	1
D753	407 008 0405	DIODE GMB01-BT	1
D754	407 008 0405	DIODE GMB01-BT	1
D755	407 005 3805	DIODE DS442-BT	1
D756	407 005 3805	DIODE DS442-BT	1
D757	407 005 3805	DIODE DS442-BT	1
D758	407 005 3805	DIODE DS442-BT	1
D759	407 008 0405	DIODE GMB01-BT	1
D760	407 008 0405	DIODE GMB01-BT	1
D761	407 005 3805	DIODE DS442-BT	1
D762	407 005 3805	DIODE DS442-BT	1
D763	407 005 3805	DIODE DS442-BT	1
D764	407 005 3805	DIODE DS442-BT	1
D765	407 005 3805	DIODE DS442-BT	1
D766	407 005 3805	DIODE DS442-BT	1
D767	407 008 0405	DIODE GMB01-BT	1
D768	407 005 3805	DIODE DS442-BT	1
D769	407 005 3805	DIODE DS442-BT	1
D770	407 112 7208	LED SLB-55MG3F	1
D771	407 112 7208	LED SLB-55MG3F	1
D772	407 112 7208	LED SLB-55MG3F	1
D773	407 112 7109	LED SLB-55VR3F	1
D774	407 112 7208	LED SLB-55MG3F	1
ASSY,PCB,MOTOR VOLUME			
77	620 204 9762	Assy,PCB,Motor Volume	1
CA441	620 202 1362	Assy,Connector-S,3P	1
CA983	620 206 8879	Assy,Terminal,1P	1
CN981	620 021 7620	Plug 2P	1
CN982	620 021 1970	Plug 2P	1
L981	620 197 8926	Inductor 1MH K	1
SH441	620 200 2620	Socket,Holder,3P	1
SJ302	620 020 4729	Socket Jumper 3P	1
SJ303	620 201 6474	Socket,Jumper,6P	1
VR981	620 201 6429	VR,Rotary,2X50KA,Motor	1
IC981	409 114 4803	IC LB1641	1
D981	407 050 5502	ZENER DIODE GZA5.6Y-BT	1
C983	403 067 7904	MT-COMPO 0.056U J 50V	1
C984	403 067 7904	MT-COMPO 0.056U J 50V	1
C985	403 067 5603	MT-COMPO 0.1U J 50V	1
C986	403 057 0908	POLYESTER 0.01U K 50V	1
C988	403 121 9509	CERAMIC 0.1U Z 50V	1
C989	403 121 9509	CERAMIC 0.1U Z 50V	1
C990	403 121 9509	CERAMIC 0.1U Z 50V	1
C991	403 121 9509	CERAMIC 0.1U Z 50V	1
R981	401 024 9701	CARBON 12K JA 1/6W	1
R982	401 024 9701	CARBON 12K JA 1/6W	1
R983	402 016 4506	FUSIBLE RES 10 J- 1/2W	1
ASSY,PCB,HEADPHONE			
78	620 201 4661	Assy,PCB,Headphone	1
	620 190 2242	Jack 7P Black	1
SH442	620 200 2576	Socket,Holder,5P	1
W442	620 201 6979	Wire,5P	1
R951	401 060 2803	OXIDE-MT 220 JB 1W	1
R952	401 060 2803	OXIDE-MT 220 JB 1W	1
R953	401 060 2803	OXIDE-MT 220 JB 1W	1
R954	401 060 2803	OXIDE-MT 220 JB 1W	1
ASSY,PCB,VOLUME INDICATOR			
79	620 201 4678	Assy,PCB,Volume Indicator	1
CA981	620 018 1952	Connector 2P Assy	1
D985	407 033 9206	LED SLP-446B-50	1
ASSY,PCB,CD MAIN			
80	620 201 5125	Assy,PCB,CD Main	1
	411 020 7700	SCR S-TPG BRZ 3X6	1
	620 053 7247	Plate Heat Sink	1
CN53	620 021 5947	Plug 5P	1
CN54	620 020 5801	Socket Jumper 5P	1
CN55	620 021 8337	Plug 6P	1
CN56	620 021 8610	Plug 6P	1
CN57	620 021 9976	Plug 9P	1
PC51	620 201 5309	Connector-P,TYC-B13P-A1	1
PC52	620 201 5309	Connector-P,TYC-B13P-A1	1
P51	620 006 1377	Potentiometer 10KB	1
or	620 006 1940	Potentiometer 10KB	1
P52	620 006 2343	Potentiometer 100KB	1
P53	620 006 1360	Potentiometer 22KB	1
or	620 006 1957	Potentiometer 20KB	1
P54	620 006 1353	Potentiometer 100KB	1
or	620 006 1933	Potentiometer 100KB	1
P55	620 006 1360	Potentiometer 22KB	1
or	620 006 1957	Potentiometer 20KB	1
TP1	620 021 9983	Plug 5P	1
TP2	620 021 9983	Plug 5P	1
TP3	620 021 4025	Plug 3P	1
TP4	620 021 7620	Plug 2P	1
TP5	620 021 4025	Plug 3P	1
TP6	620 021 4025	Plug 3P	1
TP7	620 021 7620	Plug 2P	1
TP8	620 021 6807	Pin 1P	1
or	620 021 6814	Pin 1P	1
T51	620 026 8745	RF Filter	1
or	620 026 8752	RF Low Pass Filter	1
or	620 026 8769	RF Filter	1
T52	620 028 8699	OSC Coil	1
or	620 028 8774	OSC Coil	1
X51	620 200 8967	Resonator,Xtal,17.2872MHz	1
IC51	409 124 6507	IC LA9200NM	1
IC52	409 168 1308	IC LC7860J	1
IC53	409 128 0006	IC LC3517BM-15	1
IC54	409 198 9206	IC BA4558N	1
IC55	409 198 9206	IC BA4558N	1
IC56	409 169 7804	IC NJM78M05FA	1
IC57	409 039 9402	IC NJM78L06A	1
IC58	409 136 9503	IC TA79L006P	1
IC61	409 199 2107	IC LC97000A-288	1
IC62	409 200 0504	IC MC74HC76N	1
IC63	409 183 7903	IC MC74HC14AN	1
IC64	409 057 4403	IC UPC4570C	1
or	409 070 4701	IC NJM2068D	1
Q51	405 019 3804	TR 2SC536-G-NP-AA	1
Q52	405 004 4502	TR 2SA608-F-NP-AA	1
Q53	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q54	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q55	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q56	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q58	405 004 4502	TR 2SA608-F-NP-AA	1
Q59	405 018 2600	TR 2SC3400-AC	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
Q60	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q61	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q62	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q63	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q64	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q65	405 004 4502	TR 2SA608-F-NP-AA	1
Q66	405 019 3804	TR 2SC536-G-NP-AA	1
Q67	405 018 2600	TR 2SC3400-AC	1
Q72	405 004 4502	TR 2SA608-F-NP-AA	1
Q73	405 039 5802	TR 2SC3792	1
Q74	405 039 5802	TR 2SC3792	1
D51	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D52	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D53	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D54	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D55	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D56	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D57	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D58	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D59	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D60	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D61	407 005 8602	DIODE ERA15-02	1
D62	407 005 8602	DIODE ERA15-02	1
D63	407 005 8602	DIODE ERA15-02	1
D64	407 005 8602	DIODE ERA15-02	1
D65	407 005 8602	DIODE ERA15-02	1
D66	407 005 8602	DIODE ERA15-02	1
D67	407 099 8908	ZENER DIODE MTZJ24D-T-77	1
D68	407 099 5303	ZENER DIODE MTZJ5.6B-T-77	1
D69	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D70	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D71	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D72	407 099 4405	ZENER DIODE MTZJ3.6A-T-77	1
D73	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D83	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D84	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
Q57	407 000 3503	VARACTOR DI SVC211SP	1
C51	403 049 5508	ELECT 10U M 50V	1
C52	403 001 1906	CERAMIC 0.01U M 16V	1
C53	403 001 1906	CERAMIC 0.01U M 16V	1
C54	403 001 1906	CERAMIC 0.01U M 16V	1
C55	403 048 7701	ELECT 0.47U M 50V	1
C56	403 071 2001	CERAMIC 180P K 50V	1
C57	403 030 6309	CERAMIC 68P J 50V	1
C58	403 030 6309	CERAMIC 68P J 50V	1
C59	403 086 1907	NP-ELECT 0.47U M 50V	1
C60	403 073 7004	CERAMIC 470P K 50V	1
C61	403 044 0300	ELECT 47U M 16V	1
C62	403 073 7004	CERAMIC 470P K 50V	1
C63	403 121 9509	CERAMIC 0.1U Z 50V	1
C64	403 063 2606	POLYESTER 0.068U K 50V	1
C67	403 022 7703	CERAMIC 33P J 50V	1
C68	403 022 7703	CERAMIC 33P J 50V	1
C69	403 001 1906	CERAMIC 0.01U M 16V	1
C70	403 073 7004	CERAMIC 470P K 50V	1
C71	403 067 6204	MT-COMPO 0.15U J 50V	1
C72	403 086 2706	NP-ELECT 1U M 50V	1
C73	403 086 1600	NP-ELECT 0.33U M 50V	1
C74	403 071 6207	CERAMIC 220P K 50V	1
C75	403 025 7304	CERAMIC 4.7P K 50V	1
C76	403 057 0908	POLYESTER 0.01U K 50V	1
C77	403 003 8705	CERAMIC 0.039U K 25V	1
C78	403 071 6207	CERAMIC 220P K 50V	1
C79	403 087 2507	STYRENE 1000P J 50V	1
C80	403 057 0908	POLYESTER 0.01U K 50V	1
C81	403 121 9509	CERAMIC 0.1U Z 50V	1
C82	403 149 7105	POLYPRO 680P J 100V	1
C83	403 003 6701	CERAMIC 0.033U K 25V	1
C84	403 121 9509	CERAMIC 0.1U Z 50V	1
C85	403 049 1708	ELECT 1U M 50V	1
C88	403 002 6207	CERAMIC 0.012U K 25V	1
C89	403 071 7501	CERAMIC 2200P K 50V	1
C90	403 002 6207	CERAMIC 0.012U K 25V	1
C91	403 071 7501	CERAMIC 2200P K 50V	1
C92	403 086 2706	NP-ELECT 1U M 50V	1
C93	403 086 2706	NP-ELECT 1U M 50V	1
C94	403 048 3208	ELECT 0.22U M 50V	1
C95	403 038 2402	ELECT 100U M 6.3V	1
C96	403 145 3705	CERAMIC 0.047U Z 50V	1
C97	403 086 2706	NP-ELECT 1U M 50V	1
C98	403 121 9509	CERAMIC 0.1U Z 50V	1
C99	403 050 3708	ELECT 22U M 50V	1
C100	403 050 3708	ELECT 22U M 50V	1
C101	403 043 3104	ELECT 2200U M 16V	1
C102	403 043 3104	ELECT 2200U M 16V	1
C103	403 072 2703	CERAMIC 0.022U Z 50V	1
C104	403 072 2703	CERAMIC 0.022U Z 50V	1
C105	403 054 1304	ELECT 47U M 35V	1
C106	403 051 3905	ELECT 47U M 50V	1
C107	403 050 3708	ELECT 22U M 50V	1
C109	403 049 1708	ELECT 1U M 50V	1
C110	403 040 4807	ELECT 220U M 10V	1
C111	403 046 4603	ELECT 33U M 25V	1
C112	403 021 7308	CERAMIC 3.3P K 50V	1
C113	403 044 0300	ELECT 47U M 16V	1
C114	403 001 1906	CERAMIC 0.01U M 16V	1
C115	403 195 5704	CERAMIC 0.022U Z 50V	1
C116	403 001 1906	CERAMIC 0.01U M 16V	1
C117	403 049 5508	ELECT 10U M 50V	1
C118	403 008 5105	CERAMIC 10P D 50V	1
C119	403 008 5105	CERAMIC 10P D 50V	1
C128	403 072 2703	CERAMIC 0.022U Z 50V	1
C129	403 040 4807	ELECT 220U M 10V	1
C130	403 044 0300	ELECT 47U M 16V	1
C131	403 044 0300	ELECT 47U M 16V	1
C132	403 051 2106	ELECT 4.7U M 50V	1
C133	403 051 2106	ELECT 4.7U M 50V	1
C134	403 073 7004	CERAMIC 470P K 50V	1
C135	403 073 7004	CERAMIC 470P K 50V	1
C136	403 001 1906	CERAMIC 0.01U M 16V	1
C137	403 121 9509	CERAMIC 0.1U Z 50V	1
C138	403 121 9509	CERAMIC 0.1U Z 50V	1
C139	403 001 1906	CERAMIC 0.01U M 16V	1
C140	403 002 2902	CERAMIC 0.01U M 25V	1
C141	403 121 9509	CERAMIC 0.1U Z 50V	1
C142	403 121 9509	CERAMIC 0.1U Z 50V	1
R51	401 012 5708	CARBON 1K JA 1/4W	1
R52	401 026 4605	CARBON 33K JA 1/6W	1
R53	401 027 2600	CARBON 5.6K JA 1/6W	1
R54	401 024 7707	CARBON 100K JA 1/6W	1
R55	401 024 7707	CARBON 100K JA 1/6W	1
R56	401 025 1902	CARBON 15K JA 1/6W	1
R57	401 027 2600	CARBON 5.6K JA 1/6W	1
R58	401 024 8001	CARBON 1M JA 1/6W	1
R59	401 025 8208	CARBON 22K JA 1/6W	1
R60	401 024 7707	CARBON 100K JA 1/6W	1
R61	401 026 1604	CARBON 270K JA 1/6W	1
R62	401 026 1604	CARBON 270K JA 1/6W	1
R63	401 013 7305	CARBON 120K JA 1/4W	1
R64	401 026 4605	CARBON 33K JA 1/6W	1
R65	401 024 6700	CARBON 100 JA 1/6W	1
R66	401 025 4606	CARBON 18K JA 1/6W	1
R67	401 020 2904	CARBON 47K JA 1/4W	1
R68	401 026 1604	CARBON 270K JA 1/6W	1
R69	401 027 0309	CARBON 47K JA 1/6W	1
R70	401 025 8208	CARBON 22K JA 1/6W	1
R71	401 024 9305	CARBON 1.2K JA 1/6W	1
R72	401 027 5205	CARBON 680 JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
Q60	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q61	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q62	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q63	405 086 4605	TR 2SD1862-TV2-R	1
or	405 033 5006	TR 2SD1227-M	1
Q64	405 084 7905	TR 2SB1240-TV2-R	1
or	405 032 3102	TR 2SB911-M	1
Q65	405 004 4502	TR 2SA608-F-NP-AA	1
Q66	405 019 3804	TR 2SC536-G-NP-AA	1
Q67	405 018 2600	TR 2SC3400-AC	1
Q72	405 004 4502	TR 2SA608-F-NP-AA	1
Q73	405 039 5802	TR 2SC3792	1
Q74	405 039 5802	TR 2SC3792	1
D51	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D52	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D53	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D54	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D55	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D56	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D57	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D58	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D59	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D60	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D61	407 005 8602	DIODE ERA15-02	1
D62	407 005 8602	DIODE ERA15-02	1
D63	407 005 8602	DIODE ERA15-02	1
D64	407 005 8602	DIODE ERA15-02	1
D65	407 005 8602	DIODE ERA15-02	1
D66	407 005 8602	DIODE ERA15-02	1
D67	407 099 8908	ZENER DIODE MTZJ24D-T-77	1
D68	407 099 5303	ZENER DIODE MTZJ5.6B-T-77	1
D69	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D70	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D71	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D72	407 099 4405	ZENER DIODE MTZJ3.6A-T-77	1
D73	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D83	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
D84	407 061 2200	DIODE 1SS254-TA	1
or	407 008 0405	DIODE GMB01-BT	1
Q57	407 000 3503	VARACTOR DI SVC211SP	1
C51	403 049 5508	ELECT 10U M 50V	1
C52	403 001 1906	CERAMIC 0.01U M 16V	1
C53	403 001 1906	CERAMIC 0.01U M 16V	1
C54	403 001 1906	CERAMIC 0.01U M 16V	1
C55	403 048 7701	ELECT 0.47U M 50V	1
C56	403 071 2001	CERAMIC 180P K 50V	1
C57	403 030 6309	CERAMIC 68P J 50V	1
C58	403 030 6309	CERAMIC 68P J 50V	1
C59	403 086 1907	NP-ELECT 0.47U M 50V	1
C60	403 073 7004	CERAMIC 470P K 50V	1
C61	403 044 0300	ELECT 47U M 16V	1
C62	403 073 7004	CERAMIC 470P K 50V	1
C63	403 121 9509	CERAMIC 0.1U Z 50V	1
C64	403 063 2606	POLYESTER 0.068U K 50V	1
C67	403 022 7703	CERAMIC 33P J 50V	1
C68	403 022 7703	CERAMIC 33P J 50V	1
C69	403 001 1906	CERAMIC 0.01U M 16V	1
C70	403 073 7004	CERAMIC 470P K 50V	1
C71	403 067 6204	MT-COMPO 0.15U J 50V	1
C72	403 086 2706	NP-ELECT 1U M 50V	1
C73	403 086 1600	NP-ELECT 0.33U M 50V	1
C74	403 071 6207	CERAMIC 220P K 50V	1
C75	403 025 7304	CERAMIC 4.7P K 50V	1
C76	403 057 0908	POLYESTER 0.01U K 50V	1
C77	403 003 8705	CERAMIC 0.039U K 25V	1
C78	403 071 6207	CERAMIC 220P K 50V	1
C79	403 087 2507	STYRENE 1000P J 50V	1
C80	403 057 0908	POLYESTER 0.01U K 50V	1
C81	403 121 9509	CERAMIC 0.1U Z 50V	1
C82	403 149 7105	POLYPRO 680P J 100V	1
C83	403 003 6701	CERAMIC 0.033U K 25V	1
C84	403 121 9509	CERAMIC 0.1U Z 50V	1
C85	403 049 1708	ELECT 1U M 50V	1
C88	403 002 6207	CERAMIC 0.012U K 25V	1
C89	403 071 7501	CERAMIC 2200P K 50V	1
C90	403 002 6207	CERAMIC 0.012U K 25V	1
C91	403 071 7501	CERAMIC 2200P K 50V	1
C92	403 086 2706	NP-ELECT 1U M 50V	1
C93	403 086 2706	NP-ELECT 1U M 50V	1
C94	403 048 3208	ELECT 0.22U M 50V	1
C95	403 038 2402	ELECT 100U M 6.3V	1
C96	403 145 3705	CERAMIC 0.047U Z 50V	1
C97	403 086 2706	NP-ELECT 1U M 50V	1
C98	403 121 9509	CERAMIC 0.1U Z 50V	1
C99	403 050 3708	ELECT 22U M 50V	1
C100	403 050 3708	ELECT 22U M 50V	1
C101	403 043 3104	ELECT 2200U M 16V	1
C102	403 043 3104	ELECT 2200U M 16V	1
C103	403 072 2703	CERAMIC 0.022U Z 50V	1
C104	403 072 2703	CERAMIC 0.022U Z 50V	1
C105	403 054 1304	ELECT 47U M 35V	1
C106	403 051 3905	ELECT 47U M 50V	1
C107	403 050 3708	ELECT 22U M 50V	1
C109	403 049 1708	ELECT 1U M 50V	1
C110	403 040 4807	ELECT 220U M 10V	1
C111	403 046 4603	ELECT 33U M 25V	1
C112	403 021 7308	CERAMIC 3.3P K 50V	1
C113	403 044 0300	ELECT 47U M 16V	1
C114	403 001 1906	CERAMIC 0.01U M 16V	1
C115	403 195 5704	CERAMIC 0.022U Z 50V	1
C116	403 001 1906	CERAMIC 0.01U M 16V	1
C117	403 049 5508	ELECT 10U M 50V	1
C118	403 008 5105	CERAMIC 10P D 50V	1
C119	403 008 5105	CERAMIC 10P D 50V	1
C128	403 072 2703	CERAMIC 0.022U Z 50V	1
C129	403 040 4807	ELECT 220U M 10V	1
C130	403 044 0300	ELECT 47U M 16V	1
C131	403 044 0300	ELECT 47U M 16V	1
C132	403 051 2106	ELECT 4.7U M 50V	1
C133	403 051 2106	ELECT 4.7U M 50V	1
C134	403 073 7004	CERAMIC 470P K 50V	1
C135	403 073 7004	CERAMIC 470P K 50V	1
C136	403 001 1906	CERAMIC 0.01U M 16V	1
C137	403 121 9509	CERAMIC 0.1U Z 50V	1
C138	403 121 9509	CERAMIC 0.1U Z 50V	1
C139	403 001 1906	CERAMIC 0.01U M 16V	1
C140	403 002 2902	CERAMIC 0.01U M 25V	1
C141	403 121 9509	CERAMIC 0.1U Z 50V	1
C142	403 121 9509	CERAMIC 0.1U Z 50V	1
R51	401 012 5708	CARBON 1K JA 1/4W	1
R52	401 026 4605	CARBON 33K JA 1/6W	1
R53	401 027 2600	CARBON 5.6K JA 1/6W	1
R54	401 024 7707	CARBON 100K JA 1/6W	1
R55	401 024 7707	CARBON 100K JA 1/6W	1
R56	401 025 1902	CARBON 15K JA 1/6W	1
R57	401 027 2600	CARBON 5.6K JA 1/6W	1
R58	401 024 8001	CARBON 1M JA 1/6W	1
R59	401 025 8208	CARBON 22K JA 1/6W	1
R60	401 024 7707	CARBON 100K JA 1/6W	1
R61	401 026 1604	CARBON 270K JA 1/6W	1
R62	401 026 1604	CARBON 270K JA 1/6W	1
R63	401 013 7305	CARBON 120K JA 1/4W	1
R64	401 026 4605	CARBON 33K JA 1/6W	1
R65	401 024 6700	CARBON 100 JA 1/6W	1
R66	401 025 4606	CARBON 18K JA 1/6W	1
R67	401 020 2904	CARBON 47K JA 1/4W	1
R68	401 026 1604	CARBON 270K JA 1/6W	1
R69	401 027 0309	CARBON 47K JA 1/6W	1
R70	401 025 8208	CARBON 22K JA 1/6W	1
R71	401 024 9305	CARBON 1.2K JA 1/6W	1
R72	401 027 5205	CARBON 680 JA 1/6W	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
D80	407 061 0800	DIODE 1S2473T	1
or	407 005 3805	DIODE DS442-BT	1
D81	407 061 0800	DIODE 1S2473T	1
or	407 005 3805	DIODE DS442-BT	1
D82	407 061 0800	DIODE 1S2473T	1
or	407 005 3805	DIODE DS442-BT	1
C120	403 044 0300	ELECT 47U M 16V	1
C121	403 001 1906	CERAMIC 0.01U M 16V	1
C123	403 121 9509	CERAMIC 0.1U Z 50V	1
C124	403 195 5704	CERAMIC 0.022U Z 50V	1
C125	403 195 5704	CERAMIC 0.022U Z 50V	1
C126	403 051 2106	ELECT 4.7U M 50V	1
C127	403 069 1207	CERAMIC 1000P K 50V	1
R151	401 024 8001	CARBON 1M JA 1/6W	1
R152	401 024 7400	CARBON 10K JA 1/6W	1
R153	401 026 1000	CARBON 2.7K JA 1/6W	1
R154	401 025 8208	CARBON 22K JA 1/6W	1
R155	401 024 7400	CARBON 10K JA 1/6W	1
R156	401 024 7400	CARBON 10K JA 1/6W	1
R157	401 024 7707	CARBON 100K JA 1/6W	1
R158	401 027 9005	CARBON 82K JA 1/6W	1
R159	401 026 9600	CARBON 470 JA 1/6W	1
R160	401 012 8105	CARBON 100K JA 1/4W	1
R161	401 012 8105	CARBON 100K JA 1/4W	1
R162	401 012 8105	CARBON 100K JA 1/4W	1
R163	401 012 8105	CARBON 100K JA 1/4W	1

ASSY,PCB,3 DIMENSION

Ref. No.	Part No.	Description	Q'ty
82	620 203 0487	Assy,PCB,3 Dimension	1
	620 203 0524	Terminal,Push,2P	1
SH971	620 201 0373	Socket,Holder,3P	1
W971	620 203 0562	Wire,3P	1

ASSY,PCB,SUB POWER

Ref. No.	Part No.	Description	Q'ty
83	620 205 6210	Assy,PCB,SUB Power	1
	620 017 2721	Fuse Clip	6
	620 022 2587	EC Terminal 1P	2
	⚠ 620 205 7385	Power Trans,MV,10VA	1
	620 031 4763	Wire Wrap Terminal	8
	620 053 6899	Cover Safety	1
CA438	620 201 6818	Assy,Connector-S,6P	1
C966	⚠ 620 006 6679	Capacitor 0.01MF400V	1
F961	⚠ 423 006 4702	FUSE 250V T2.5A	1
F963	⚠ 423 003 4101	FUSE 250V T0.4A	1
F964	⚠ 423 003 4101	FUSE 250V T0.4A	1
RY961	620 017 0406	Relay	1
SH439	620 201 0373	Socket,Holder,3P	1
W439	620 201 6917	Wire,3P	1
Q961	405 019 3903	TR 2SC536-G-SPA-AC	1
or	405 019 4702	TR 2SC536-H-SPA-AC	1
D961	407 061 9209	DIODE W02	1
D962	407 004 9105	DIODE DSF10C-BT	1
or	407 096 5504	DIODE RL1N4003-E	1
C961	403 069 8404	CERAMIC 0.01U Z 50V	1
C962	403 069 8404	CERAMIC 0.01U Z 50V	1
C963	403 069 8404	CERAMIC 0.01U Z 50V	1
C964	403 069 8404	CERAMIC 0.01U Z 50V	1
C965	403 047 6309	ELECT 470U M 25V	1
R961	401 024 7400	CARBON 10K JA 1/6W	1

ASSY,PCB,MAIN TRANS-1

Ref. No.	Part No.	Description	Q'ty
84	620 204 8406	Assy,PCB,Main Trans-1	1
CA995	620 201 6795	Assy,Connector-S,9P	1
CA996	620 201 7211	Assy,Receptacle,2P	1

ASSY,PCB,MAIN TRANS-2

Ref. No.	Part No.	Description	Q'ty
85	620 204 8413	Assy,PCB,Main Trans-2	1
	620 017 2721	Fuse Clip	8
CA971	620 201 6825	Assy,Connector-S,5P	1
F965	⚠ 423 004 3301	FUSE 250V T0.8A	1
F966	⚠ 423 004 3301	FUSE 250V T0.8A	1
F967	⚠ 423 004 3301	FUSE 250V T0.8A	1
F968	⚠ 423 004 3301	FUSE 250V T0.8A	1

ASSY,PCB,BEAT SWITCH

Ref. No.	Part No.	Description	Q'ty
86	620 204 8420	Assy,PCB,Beat Switch	1
	620 204 9748	Assy,Wire,Connector,2P	1
S31	620 016 5600	Switch Slide 2-2	1

ASSY,PCB,TUNER MAIN

Ref. No.	Part No.	Description	Q'ty
87	620 205 8085	Assy,PCB,Tuner Main	1
	620 192 6057	FM Frontend 3MV 300	1

(Component parts used in Front End are not serviceable and available.)

Ref. No.	Part No.	Description	Q'ty
	620 022 5113	4P Push Terminal	1
	411 099 9803	SCR S-TPG BRZ 3X8	1
	620 031 4763	Wire Wrap Terminal	3
	620 050 2450	Metal Mount Antenna	1
	620 189 1294	Plate Heat Sink	1
CN801	620 021 8344	Plug 10P	1
CN802	620 021 8320	Plug 5P	1
CN831	620 201 6702	Socket,5P	1
CN837	620 201 6719	Socket,6P	1
CN901	620 021 6791	RT Pin 1P	1
FU801	620 017 0734	Protector ICP-5	1
F803	620 014 6371	Ceramic Filter 10.7MHz	1
F804	620 014 6371	Ceramic Filter 10.7MHz	1
F805	620 014 5862	Ceramic Filter 450kHz	1
F806	620 014 5879	Ceramic Filter 450kHz	1
F807	620 014 6319	Ceramic OSC CSB456F11	1
P801	620 006 1360	Potentiometer 22KB	1
P802	620 190 9616	Potentiometer 10KB	1
or	620 006 1377	Potentiometer 10KB	1
P803	620 190 9609	Potentiometer 100KB	1
or	620 006 1353	Potentiometer 100KB	1
TC801	620 189 9108	Trimmer 20PF	1
or	620 007 0614	Trimmer 20PF	1
T801	620 028 1348	MW Antenna Coil	1
T803	620 028 7784	OSC Coil MW	1
T805	620 027 7013	IFT AM	1
T806	620 027 7242	IFT, FM DET 1st	1
T807	620 027 7259	IFT, FM DET 2nd	1
T811	620 026 4754	Low Pass Filter	1
T812	620 026 4754	Low Pass Filter	1
X801	620 007 1321	Crystal 7.2MHz	1
or	620 007 1314	Crystal 7.2MHz	1
IC801	409 016 2105	IC LA1265	1
IC802	409 017 1008	IC LA3401	1
IC803	409 066 7600	IC LM7001	1
IC804	409 074 0808	IC LA5667	1
Q801	405 027 0505	TR 2SK246-GR	1
Q803	405 016 0905	TR 2SC2839-E-SPA-AC	1
Q804	405 003 7702	TR 2SA1346-AC	1
Q805	405 027 8402	TR 2SK583	1
Q806	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q807	405 019 2708	TR 2SC536-F-NP-AA	1
or	405 019 3804	TR 2SC536-G-NP-AA	1
Q808	405 003 7702	TR 2SA1346-AC	1
Q809	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q810	405 021 0204	TR 2SD1012-F-SPA-AC	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1
Q811	405 008 6809	TR 2SB808-F-SPA-AC	1
or	405 008 7103	TR 2SB808-G-SPA-AC	1
Q812	405 018 2600	TR 2SC3400-AC	1
Q813	405 003 7702	TR 2SA1346-AC	1
Q814	405 007 5308	TR 2SB560-F-MP	1

If necessary, replace both Diode D801, D802 (SVC321) together with new ones which have the equivalent characteristics.

Ref. No.	Part No.	Description	Q'ty
D801	407 000 4708	VARACTOR DI SVC321C-2	1
or	407 000 4807	VARACTOR DI SVC321D-2	1
D802	407 000 4708	VARACTOR DI SVC321C-2	1
or	407 000 4807	VARACTOR DI SVC321D-2	1
D805	407 008 0405	DIODE GMB01-BT	1
D807	407 096 5504	DIODE RL1N4003-E	1
or	407 004 9105	DIODE DSF10C-BT	1
D808	407 096 5504	DIODE RL1N4003-E	1
or	407 004 9105	DIODE DSF10C-BT	1
D809	407 050 0408	ZENER DIODE GZA27Y-BT	1
D810	407 050 6103	ZENER DIODE GZA6.2X-BT	1
C801	403 074 2701	CERAMIC 0.047U Z 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
C804	403 074 2701	CERAMIC 0.047U Z 50V	1
C807	403 074 2701	CERAMIC 0.047U Z 50V	1
C808	403 026 5408	CERAMIC 47P K 50V	1
C809	403 074 2701	CERAMIC 0.047U Z 50V	1
C812	403 074 2701	CERAMIC 0.047U Z 50V	1
C815	403 074 2701	CERAMIC 0.047U Z 50V	1
C816	403 074 2701	CERAMIC 0.047U Z 50V	1
C817	403 069 8404	CERAMIC 0.01U Z 50V	1
C818	403 049 5508	ELECT 10U M 50V	1
C819	403 069 8404	CERAMIC 0.01U Z 50V	1
C820	403 050 1308	ELECT 2.2U M 50V	1
C821	403 039 7901	ELECT 100U M 10V	1
C822	403 074 5801	CERAMIC 560P K 50V	1
C823	403 074 2701	CERAMIC 0.047U Z 50V	1
C824	403 050 1308	ELECT 2.2U M 50V	1
C825	403 001 1906	CERAMIC 0.01U M 16V	1
C826	403 049 1708	ELECT 1U M 50V	1
C827	403 049 5508	ELECT 10U M 50V	1
C828	403 026 5408	CERAMIC 47P K 50V	1
C829	403 051 2106	ELECT 4.7U M 50V	1
C830	403 069 8404	CERAMIC 0.01U Z 50V	1
C832	403 017 7404	CERAMIC 22P J 50V	1
C833	403 088 4104	STYRENE 430P J 50V	1
C838	403 049 5508	ELECT 10U M 50V	1
C839	403 057 0908	POLYESTER 0.01U K 50V	1
C840	403 061 4404	POLYESTER 0.039U K 50V	1
C841	403 044 0300	ELECT 47U M 16V	1
C844	403 063 0503	POLYESTER 6800P K 50V	1
C845	403 062 0900	POLYESTER 0.047U K 50V	1
C846	403 056 8608	POLYESTER 1000P K 50V	1
C847	403 049 5508	ELECT 10U M 50V	1
C848	403 069 8404	CERAMIC 0.01U Z 50V	1
C849	403 049 1708	ELECT 1U M 50V	1
C850	403 044 0300	ELECT 47U M 16V	1
C851	403 071 5903	CERAMIC 220P K 50V	1
C852	403 071 5903	CERAMIC 220P K 50V	1
C853	403 050 1308	ELECT 2.2U M 50V	1
C854	403 050 1308	ELECT 2.2U M 50V	1
C855	403 061 2608	POLYESTER 3900P K 50V	1
C856	403 061 2608	POLYESTER 3900P K 50V	1
C857	403 048 3208	ELECT 0.22U M 50V	1
C858	403 049 1708	ELECT 1U M 50V	1
C859	403 022 5907	CERAMIC 33P J 50V	1
C860	403 022 5907	CERAMIC 33P J 50V	1
C861	403 069 8404	CERAMIC 0.01U Z 50V	1
C862	403 049 5508	ELECT 10U M 50V	1
C863	403 069 8404	CERAMIC 0.01U Z 50V	1
C864	403 026 5408	CERAMIC 47P K 50V	1
C866	403 005 0707	CERAMIC 3300P N 50V	1
C867	403 049 1708	ELECT 1U M 50V	1
C868	403 044 0300	ELECT 47U M 16V	1
C869	403 044 0300	ELECT 47U M 16V	1
C870	403 069 8404	CERAMIC 0.01U Z 50V	1
C871	403 069 8404	CERAMIC 0.01U Z 50V	1
C872	403 069 8404	CERAMIC 0.01U Z 50V	1
C873	404 012 7000	CERAMIC 0.01U P 500V	1
C874	403 052 9609	ELECT 1000U M 35V	1
C875	404 012 7000	CERAMIC 0.01U P 500V	1
C876	403 096 8408	ELECT 22U M 100V	1
C877	403 054 1304	ELECT 47U M 35V	1
C878	403 054 1304	ELECT 47U M 35V	1
C879	403 044 0300	ELECT 47U M 16V	1
C881	403 049 5508	ELECT 10U M 50V	1
C882	403 049 1708	ELECT 1U M 50V	1
C887	403 049 1708	ELECT 1U M 50V	1
C888	403 069 8404	CERAMIC 0.01U Z 50V	1
R804	401 024 7707	CARBON 100K JA 1/6W	1
R805	401 024 7004	CARBON 1K JA 1/6W	1
R806	401 024 8001	CARBON 1M JA 1/6W	1
R807	401 026 6609	CARBON 390 JA 1/6W	1
R808	401 026 1000	CARBON 2.7K JA 1/6W	1
R809	401 012 5708	CARBON 1K JA 1/4W	1
R810	401 012 5708	CARBON 1K JA 1/4W	1
R811	401 025 7805	CARBON 2.2K JA 1/6W	1
R812	401 026 6609	CARBON 390 JA 1/6W	1
R813	401 026 6609	CARBON 390 JA 1/6W	1
R814	401 026 1000	CARBON 2.7K JA 1/6W	1
R815	401 026 1000	CARBON 2.7K JA 1/6W	1
R816	401 027 5502	CARBON 6.8K JA 1/6W	1
R817	401 017 2801	CARBON 27K JA 1/4W	1
R824	401 018 3807	CARBON 3.3K JA 1/4W	1
R827	401 024 7400	CARBON 10K JA 1/6W	1
R828	401 012 7009	CARBON 10K JA 1/4W	1
R832	401 024 6700	CARBON 100 JA 1/6W	1
R835	401 012 5708	CARBON 1K JA 1/4W	1
R836	401 012 4107	CARBON 100 JA 1/4W	1
R837	401 024 7004	CARBON 1K JA 1/6W	1
R838	401 024 7004	CARBON 1K JA 1/6W	1
R839	401 012 4503	CARBON 100 JA 1/4W	1
R840	401 024 7400	CARBON 10K JA 1/6W	1
R841	401 024 7004	CARBON 1K JA 1/6W	1
R842	401 026 4308	CARBON 3.3K JA 1/6W	1
R843	401 024 7400	CARBON 10K JA 1/6W	1
R844	401 012 7009	CARBON 10K JA 1/4W	1
R845	401 012 7009	CARBON 10K JA 1/4W	1
R846	401 024 7400	CARBON 10K JA 1/6W	1
R847	401 024 7400	CARBON 10K JA 1/6W	1
R848	401 024 7400	CARBON 10K JA 1/6W	1
R849	401 024 7707	CARBON 100K JA 1/6W	1
R850	401 016 1102	CARBON 22 JA 1/4W	1
R851	401 025 8703	CARBON 220K JA 1/6W	1
R852	401 025 8703	CARBON 220K JA 1/6W	1
R853	401 026 4308	CARBON 3.3K JA 1/6W	1
R854	401 026 4308	CARBON 3.3K JA 1/6W	1
R855	401 026 4308	CARBON 3.3K JA 1/6W	1
R856	401 026 4308	CARBON 3.3K JA 1/6W	1
R859	401 027 2600	CARBON 5.6K JA 1/6W	1
R860	401 027 2600	CARBON 5.6K JA 1/6W	1
R861	401 025 4903	CARBON 180K JA 1/6W	1
R862	401 025 4903	CARBON 180K JA 1/6W	1
R863	401 026 1000	CARBON 2.7K JA 1/6W	1
R864	401 026 9907	CARBON 4.7K JA 1/6W	1
R867	401 024 7004	CARBON 1K JA 1/6W	1
R868	401 024 7707	CARBON 100K JA 1/6W	1
R869	401 027 0309	CARBON 47K JA 1/6W	1
R870	401 027 0309	CARBON 47K JA 1/6W	1
R872	401 027 2600	CARBON 5.6K JA 1/6W	1
R874	401 026 4308	CARBON 3.3K JA 1/6W	1
R875	401 024 7400	CARBON 10K JA 1/6W	1
R876	401 024 7400	CARBON 10K JA 1/6W	1
R877	401 024 7400	CARBON 10K JA 1/6W	1
R878	401 024 7400	CARBON 10K JA 1/6W	1
R879	401 025 8208	CARBON 22K JA 1/6W	1
R880	401 024 7707	CARBON 100K JA 1/6W	1
R881	401 024 7400	CARBON 10K JA 1/6W	1
R882	401 024 7707	CARBON 100K JA 1/6W	1
R883	401 024 8001	CARBON 1M JA 1/6W	1
R884	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R885	401 012 7009	CARBON 10K JA 1/4W	1
R886	401 026 4308	CARBON 3.3K JA 1/6W	1

ASSY,PCB,TUNER FRONT

Ref. No.	Part No.	Description	Q'ty
88	620 205 8092	Assy,PCB,Tuner Front	1
	620 200 8844	Spacer,CD	1
	620 200 3023	Fluorescent Tube,TU	1
	620 192 0949	Cover Shield	1
CA901	620 201 7938	Assy,Connector-S,10P	1
CA902	620 205 3721	Assy,Connector-S,5P	1
CA903	620 191 7079	Connector 1P Assy	1
L901	620 197 9336	Inductor 100UH K	1
S901	620 201 2353	Switch,Tact 160G (TIMER REC)	1
S902	620 201 2353	Switch,Tact 160G (TIMER PLAY)	1
S903	620 201 2353	Switch,Tact 160G (SLEEP)	1
S904	620 201 2353	Switch,Tact 160G (CLOCK)	1
S905	620 201 2353	Switch,Tact 160G (MEMORY)	1
S906	620 201 2353	Switch,Tact 160G (DIMMER)	1
S907	620 201 2353	Switch,Tact 160G (MEMORY SCAN)	1
S908	620 201 2353	Switch,Tact 160G (DISPLAY)	1
S909	620 201 2353	Switch,Tact 160G (STATION NAME)	1
S910	620 201 2353	Switch,Tact 160G (1)	1
S911	620 201 2353	Switch,Tact 160G (2)	1
S912	620 201 2353	Switch,Tact 160G (3)	1
S913	620 201 2353	Switch,Tact 160G (4)	1
S914	620 201 2353	Switch,Tact 160G (5)	1
S915	620 201 2353	Switch,Tact 160G (6)	1
S916	620 201 2353	Switch,Tact 160G (7)	1
S917	620 201 2353	Switch,Tact 160G (8)	1
S918	620 201 2353	Switch,Tact 160G (9)	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
S919	620 201 2353	Switch,Tact 160G (10)	1
S920	620 201 2353	Switch,Tact 160G (11)	1
S921	620 201 2353	Switch,Tact 160G (12)	1
S922	620 201 2353	Switch,Tact 160G (DOWN)	1
S923	620 201 2353	Switch,Tact 160G (UP)	1
S924	620 201 2353	Switch,Tact 160G (AM)	1
S925	620 201 2353	Switch,Tact 160G (FM-1,2)	1
S926	620 201 2353	Switch,Tact 160G (MONO/STEREO)	1
S927	620 201 2353	Switch,Tact 160G (AUTO/MANUAL)	1
TC901	620 201 5903	Trimmer,20P,Bottom	1
X901	620 201 5002	Resonator,Xtal,4.194304M	1
IC901	410 065 1605	IC TMP47C870N-4634Z	1
Q901	405 004 4601	TR 2SA608-F-SPA-AC	1
or	405 004 5103	TR 2SA608-G-SPA-AC	1
Q902	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q903	405 017 9501	TR 2SC3330-S-AC	1
or	405 017 9600	TR 2SC3330-T-AC	1
Q904	405 017 9501	TR 2SC3330-S-AC	1
or	405 017 9600	TR 2SC3330-T-AC	1
Q905	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
Q906	405 019 2807	TR 2SC536-F-SPA-AC	1
or	405 019 3903	TR 2SC536-G-SPA-AC	1
D901	407 008 0405	DIODE GMB01-BT	1
D902	407 008 0405	DIODE GMB01-BT	1
D903	407 008 0405	DIODE GMB01-BT	1
D904	407 008 0405	DIODE GMB01-BT	1
D905	407 008 0405	DIODE GMB01-BT	1
D906	407 008 0405	DIODE GMB01-BT	1
D907	407 008 0405	DIODE GMB01-BT	1
D908	407 008 0405	DIODE GMB01-BT	1
D909	407 012 4802	DIODE 1SS141	1
D931	407 008 0405	DIODE GMB01	1
D932	407 008 0405	DIODE GMB01	1
D933	407 008 0405	DIODE GMB01	1
C911	403 017 7404	CERAMIC 22P J 50V	1
C912	403 069 0705	CERAMIC 1000P K 50V	1
C913	403 005 1704	CERAMIC 4700P N 50V	1
C914	403 005 1704	CERAMIC 4700P N 50V	1
C915	403 069 8404	CERAMIC 0.01U Z 50V	1
C916	403 038 2402	ELECT 100U M 6.3V	1
C917	403 038 4505	ELECT 1000U M 6.3V	1
C918	403 121 9509	CERAMIC 0.1U Z 50V	1
C919	403 121 9509	CERAMIC 0.1U Z 50V	1
C920	403 068 9105	CERAMIC 100P K 50V	1
C921	403 121 9509	CERAMIC 0.1U Z 50V	1
R901	401 012 4503	CARBON 100 JA 1/4W	1
R902	401 026 9907	CARBON 4.7K JA 1/6W	1
R903	401 012 7009	CARBON 10K JA 1/4W	1
R904	401 027 5502	CARBON 6.8K JA 1/6W	1
R905	401 020 2003	CARBON 4.7K JA 1/4W	1
R906	401 020 2003	CARBON 4.7K JA 1/4W	1
R907	401 024 7707	CARBON 100K JA 1/6W	1
R908	401 024 7707	CARBON 100K JA 1/6W	1
R909	401 024 7400	CARBON 10K JA 1/6W	1
R910	401 024 7400	CARBON 10K JA 1/6W	1
R911	401 024 7004	CARBON 1K JA 1/6W	1
R912	401 024 7004	CARBON 1K JA 1/6W	1
R913	401 024 7400	CARBON 10K JA 1/6W	1
R914	401 024 7400	CARBON 10K JA 1/6W	1
R915	401 025 8208	CARBON 22K JA 1/6W	1
R916	401 026 9600	CARBON 470 JA 1/6W	1
R917	401 024 7707	CARBON 100K JA 1/6W	1
R918	401 027 9005	CARBON 82K JA 1/6W	1

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

REFERENCE VOLTAGES

Voltage Table of CD Main P.C.Board

TRANSISTOR DC VOLTAGES														
Ref. No.	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**
Q51	2SC536	0.5V	0V	0V	Q59	2SC3400	0.2V	5.8V	0V	Q66	2SC536	0V	0V	0V
Q52	2SA608	5.0V	0.3V	4.6V	Q60	2SD1862	0.4V	12.0V	0V	Q67	2SC3400	7.8V	0V	0V
Q53	2SD1862	0.6V	12.0V	0V	Q61	2SB1240	0.4V	−12.6V	0V	Q72	2SA608	5.0V	0.3V	5.0V
Q54	2SB1240	0.6V	−12.7V	0V	Q62	2SD1012	0.6V	0V	0V	Q73	2SC3792	0.6V	0V	0V
Q55	2SD1862	0.6V	12.0V	0V	Q63	2SD1862	0.6V	12.0V	0V	Q74	2SC3792	0.6V	0.6V	0V
Q56	2SB1240	0.6V	−12.6V	0V	Q64	2SB1240	0.6V	−12.6V	0V					
Q58	2SA608	5.8V	0.3V	5.9V	Q65	2SA608	4.6V	5.2V	5.2V					

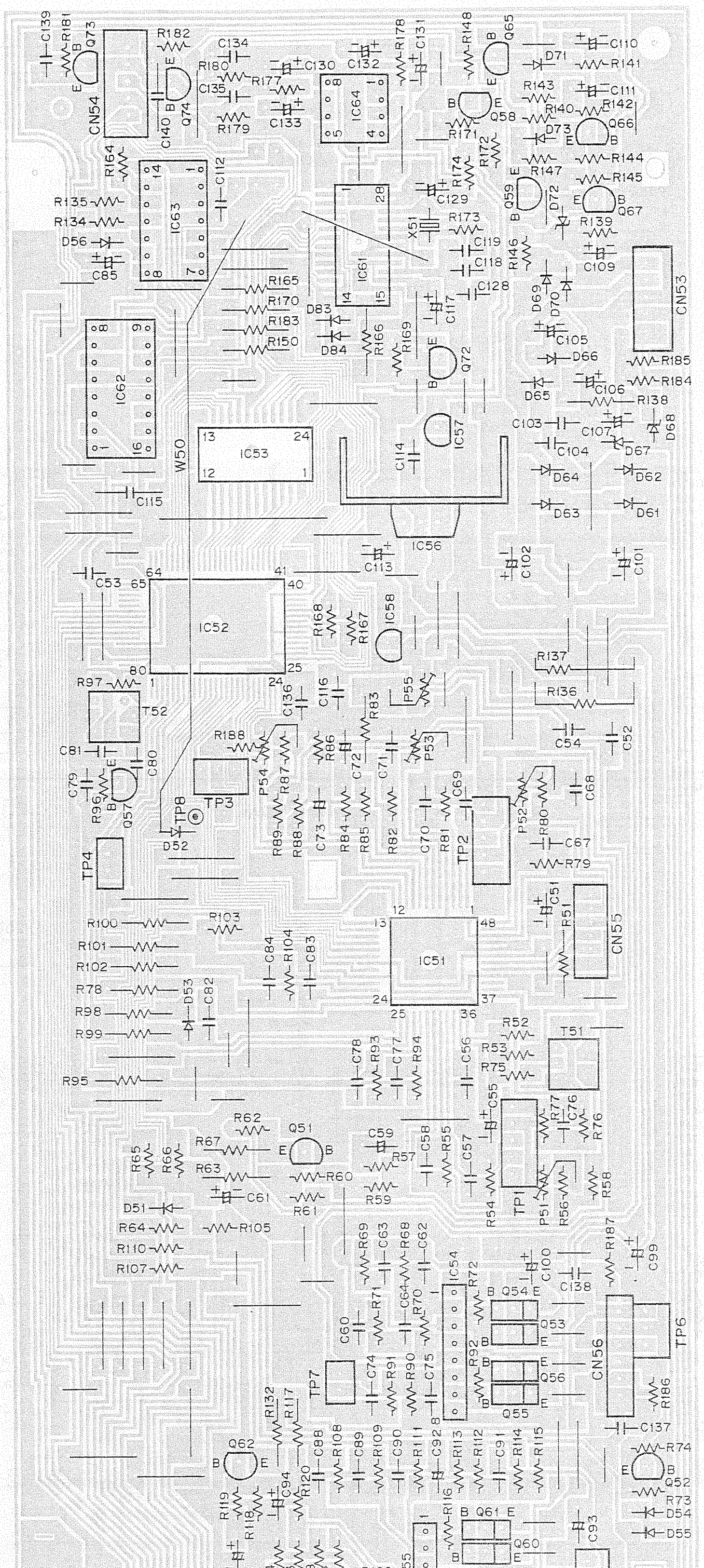
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC51	LA9200NM	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	4.2V	−5.9V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		5.0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0.6V	0V	0V	−0.2V	0V	0V	3.8V	0V	0V
		41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
		0V	0V	−5.9V	0V	0V	0V	0V	0V	–	–	–	–	–	–	–	–	–	–	–	–
IC52	LC7860J	0V	2.5V	2.5V	2.4V	0V	2.3V	1.7V	2.5V	0V	5.0V	0V	0V	0V	2.9V	0V	4.2V	4.2V	0V	4.9V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	5.0V	0V	0V	0V	0V	0V	0V	5.0V	0V	0V
		41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**
		5.0V	5.0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
		61	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**
		0V	0V	0V	0V	5.0V	0.8V	0V	0V	0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	0V	2.4V
IC53	LC3517BM	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	5.0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		5.0V	0V	0V	5.0V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC54	BA4558N	0V	0V	0V	−12.6V	0V	0V	0.6V	11.9V	–	–	–	–	–	–	–	–	–	–	–	–
IC55	BA4558N	0V	0V	0V	−12.7V	0V	0V	0.6V	12.0V	–	–	–	–	–	–	–	–	–	–	–	–
IC56	NJM78M05	5.0V	0V	12.3V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC57	NJM78L06A	5.8V	12.1V	0V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC58	TA79L006P	−5.9V	0V	0V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC61	LC97000A	0.3V	0.3V	0V	0V	0V	0.8V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	0V	0V	0.3V	–	–	–	–	–	–	–	–	–	–	–	–
IC62	MC74HC76N	0V	5.0V	0V	0V	5.0V	0V	5.0V	0V	5.0V	5.0V	0V	0V	0V	5.0V	0V	0V	–	–	–	–
IC63	MC74HC14AN	5.0V	0V	0V	5.0V	5.0V	0V	0V	0V	5.0V	0.2V	5.0V	5.0V	0V	5.0V	–	–	–	–	–	–
IC64	UPC4570C	0.6V	0.2V	0.6V	−5.9V	0.6V	0.6V	0.6V	5.8V	–	–	–	–	–	–	–	–	–	–	–	–

Voltage Table of Tuner Main P.C.Board

TRANSISTOR DC VOLTAGES														
Ref. No.	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**	**Ref. No.**	**DEVICE**	**B**	**C**	**E**
Q802	2SC536	0V	4.1V	0V	Q808	2SA1346	5.3V	−2.6V	5.7V	Q813	2SA1346	0V	0V	5.6V
Q803	2SC2839	1.4V	9.1V	0.7V	Q809	2SD1012	0V	0V	0V	Q814	2SB560	−27.7V	−56.8V	−27.2V
Q804	2SA1346	10.8V	0V	10.8V	Q810	2SD1012	0V	0V	0V			**D**	**G**	**S**
Q806	2SC536	12.8V	13.1V	12.1V	Q811	2SB808	12.4V	13.1V	13.1V	Q801	2SK246	11.3V	3.4V	5.5V
Q807	2SC536	0.6V	0V	0V	Q812	2SC3400	5.5V	0V	0V	Q805	2SK583	1.5V	1.1V	0V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	**DEVICE**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
IC801	LA1265	2.3V	2.3V	2.3V	0V	10.9V	10.9V	10.9V	4.6V	3.6V	3.1V	1.4V	1.4V	0V	0V	2.3V	1.4V	0V	0V	0.6V	3.8V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		3.8V	2.0V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC802	LA3401	0V	3.2V	3.2V	3.2V	7.3V	3.1V	3.1V	7.5V	3.1V	0V	0V	0V	5.4V	4.9V	0V	0.5V	2.7V	2.4V	2.7V	2.7V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		3.4V	12.6V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC803	LM7001	1.6V	1.6V	0V	0V	0V	0V	0.7V	10.8V	0.5V	0V	2.8V	5.5V	5.5V	0V	1.1V	0V	–	–	–	–
IC804	LA5667	22.7V	0V	5.0V	22.7V	5.6V	0V	13.1V	–	–	–	–	–	–	–	–	–	–	–	–	–

CD MAIN P.C.BOARD
(BOTTOM VIEW)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C131
R148
Q65
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C111
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R142
Q66
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R172
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R144
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C109
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R170
R183
R150
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D84
R166
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D69
D70
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C81
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Q57
R188
P54
R87
R86
C72
C71
P53
TP8
TP3
D52
R89
R88
C73
R84
R85
R82
C70
R81
C69
TP2
P52
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C68
C67
R79
TP4
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R53
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C93
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R73
D54
D55
C95
R124
R123
R128
R127
R122
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Q63
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R126
R129
R130
C96
R121
R131
C97
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D59
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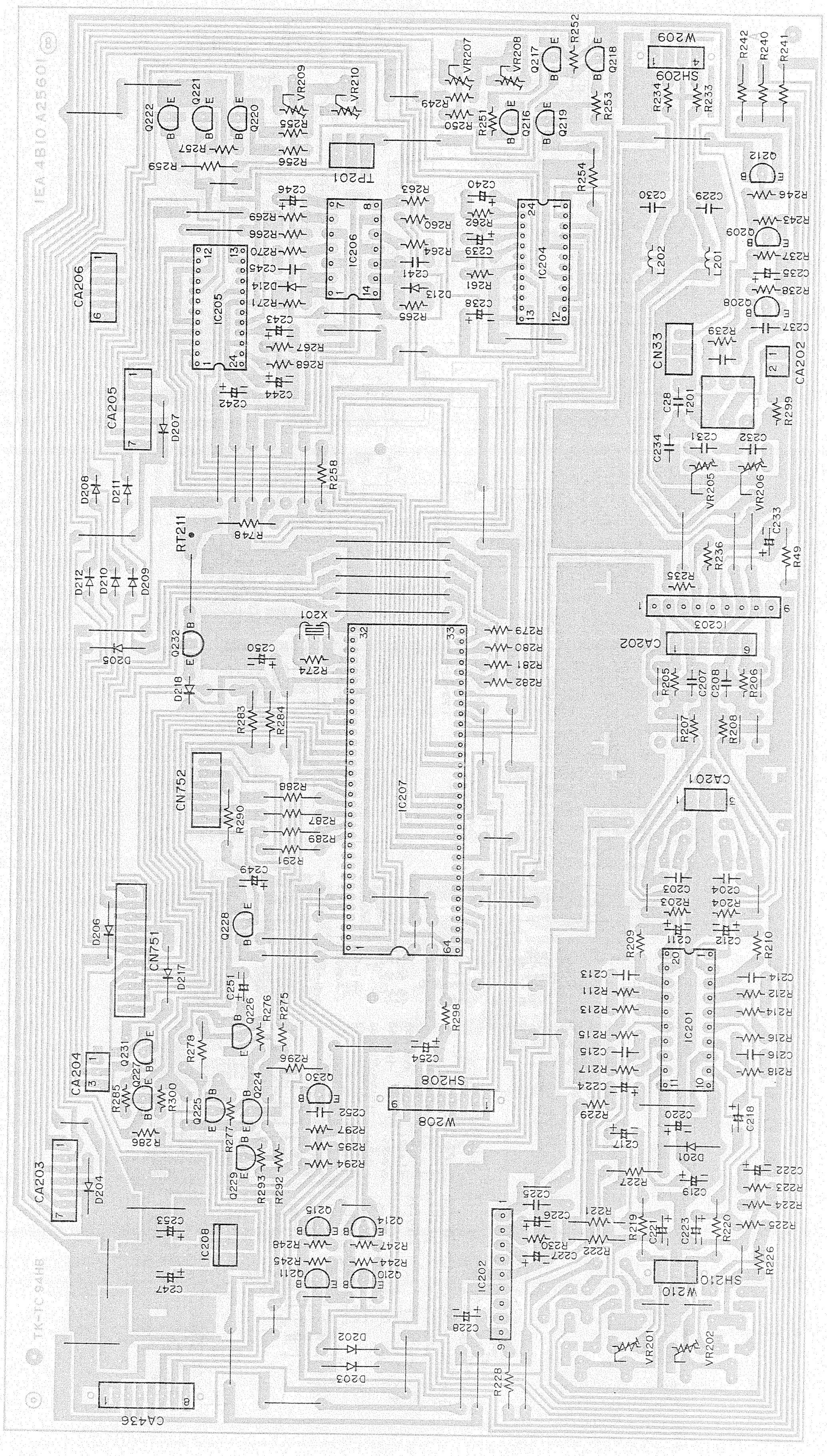
PC51
PC52

DECK CONTROL P.C.BOARD
(BOTTOM VIEW)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D204
D205
D206
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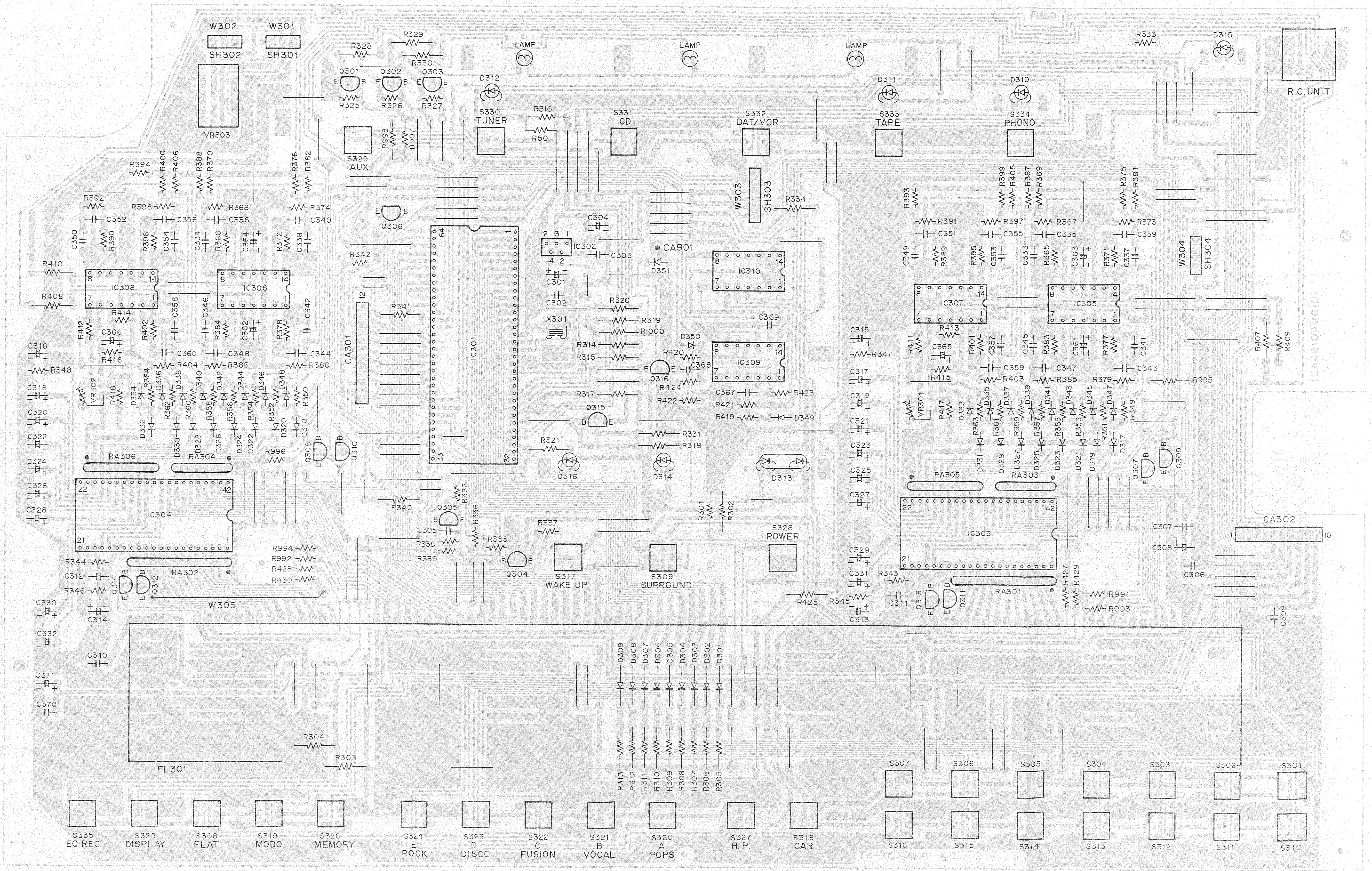
D217
D218

AMP CONTROL P.C.BOARD
(BOTTOM VIEW)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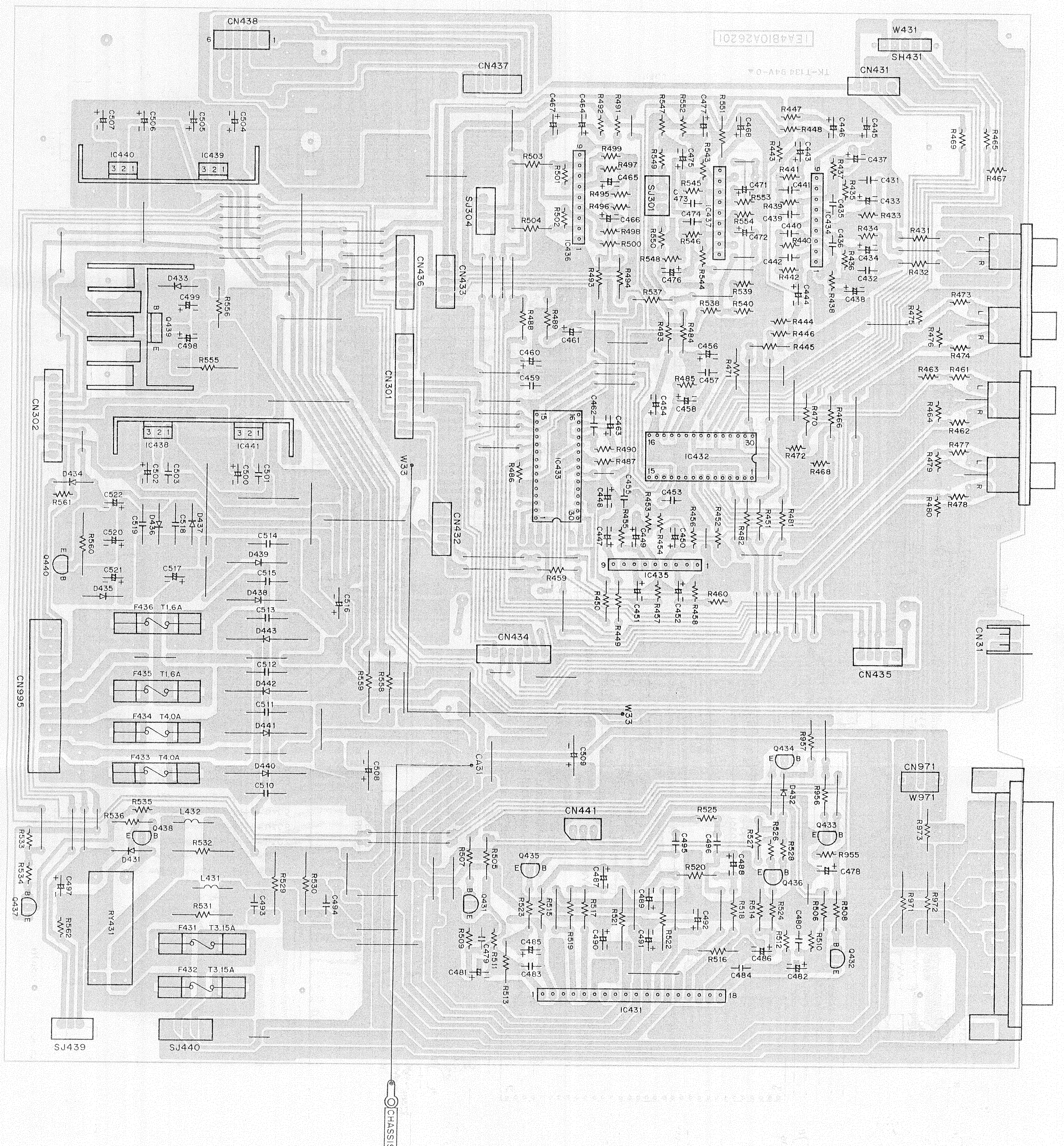
LAMP
LAMP
D312
D311
D310
D315
R333
R.C UNIT
S330 TUNER
S331 CD
S332 DAT/VCR
S333 TAPE
S334 PHONO
S329 AUX
R316
R50
R998
R997
W303
SH303
R334
W304
SH304
CA901
IC301
IC302
IC303
IC304
IC305
IC306
IC307
IC308
IC309
IC310
X301
CA301
CA302
RA301
RA302
RA303
RA304
RA305
RA306
VR301
VR302
Q304
Q305
Q306
Q307
Q308
Q309
Q310
Q311
Q312
Q313
Q314
Q315
Q316
D313
D314
D316
D349
D350
D351
S317 WAKE UP
S309 SURROUND
S328 POWER
W305
FL301
R303
R304
D301
D302
D303
D304
D305
D306
D307
D308
D309
R305
R306
R307
R308
R309
R310
R311
R312
R313
S335 EQ REC
S325 DISPLAY
S308 FLAT
S319 MODO
S326 MEMORY
S324 E ROCK
S323 D DISCO
S322 C FUSION
S321 B VOCAL
S320 A POPS
S327 H.P.
S318 CAR
S307
S306
S305
S304
S303
S302
S301
S316
S315
S314
S313
S312
S311
S310
TK-TC 94HB

MAIN POWER P.C.BOARD
(BOTTOM VIEW)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CN437
CN431
W431
SH431
1EA4B10A26201
TK-T134 94V-0
IC440
IC439
IC438
IC441
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IC433
IC434
IC435
IC436
IC437
SJ301
SJ304
SJ439
SJ440
CN302
CN301
CN436
CN433
CN432
CN434
CN435
CN31
CN441
CN971
W971
CN995
W33
CA31
RY431
F431 T3.15A
F432 T3.15A
F433 T4.0A
F434 T4.0A
F435 T1.6A
F436 T1.6A
L431
L432
Q431
Q432
Q433
Q434
Q435
Q436
Q437
Q438
Q439
Q440
CHASSIS
L
R

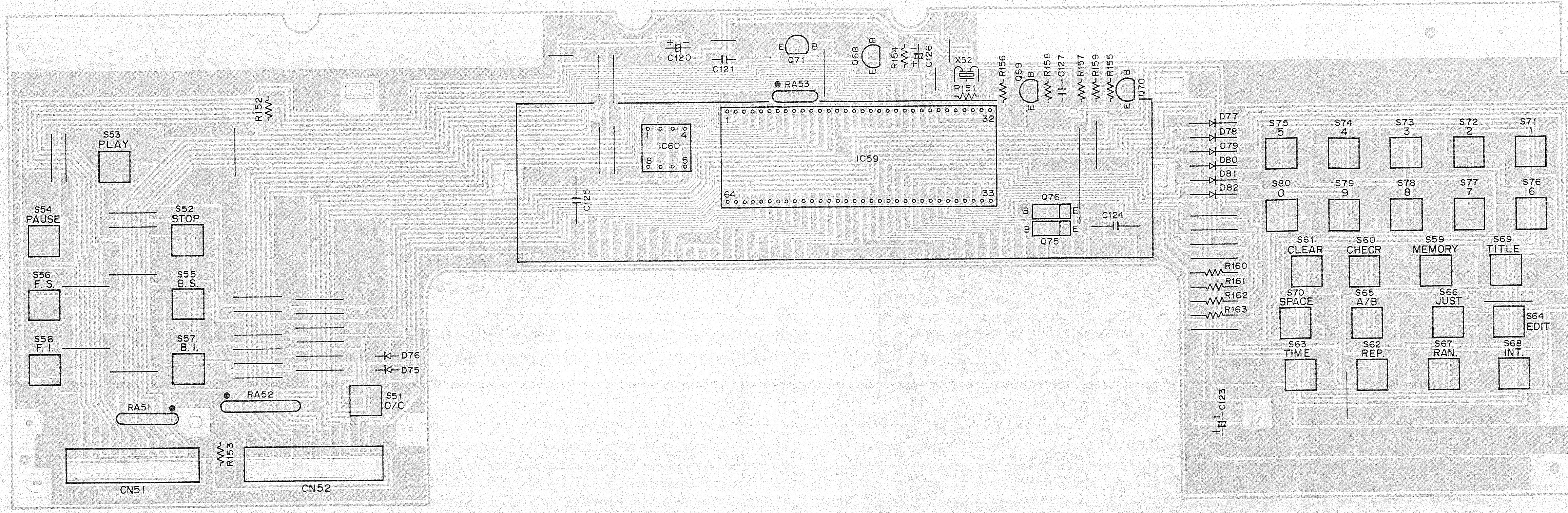
TRANSISTOR DC VOLTAGES

Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q431	2SC3792	0V	0V	0V	Q435	2SC536	0.6V	0V	0V	Q439	2SD1913	12.3V	26.2V	11.7V
Q432	2SC3792	0V	0V	0V	Q436	2SC536	0.6V	0V	0V	Q440	2SB764	−31.4V	−45.4V	−30.8V
Q433	2SC3400	4.0V	0V	0V	Q437	2SA608	4.2V	4.9V	4.9V					
Q434	2SC3400	0V	10.2V	0V	Q438	2SC536	0.7V	0.1V	0V					

IC PIN NUMBERS DC VOLTAGES

Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC431	STK4162	−0.1V	−0.1V	0V	−37.1V	−1.2V	0V	0V	0V	−39.4V	0V	39.4V	37.5V	0V	−39.4V	−1.2V	0V	−0.1V	−0.1V	—	—
IC432	LC7823	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−17.5V	3.3V	0V	0V	0V	0V	18.0V	18.2V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—
IC433	LC7823	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−17.5V	3.0V	0V	0V	0V	18.2V	18.0V	18.2V	0V
		21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	—	—	—	—	—	—	—	—	—	—
IC434	LA6458S	17.1V	0V	0V	0V	0V	0V	0V	0V	17.1V	—	—	—	—	—	—	—	—	—	—	—
IC435	LA6458S	17.1V	0V	0V	0V	0V	0V	0V	0V	17.2V	—	—	—	—	—	—	—	—	—	—	—
IC436	LA6458S	17.1V	0V	0V	0V	−16.5V	0V	0V	0V	17.1V	—	—	—	—	—	—	—	—	—	—	—
IC437	LA6458S	17.1V	0V	0.1V	0V	−16.5V	0V	0V	0V	17.1V	—	—	—	—	—	—	—	—	—	—	—
IC438	L78M05	26.2V	0V	4.9V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC439	NJM78M18	18.2V	0V	35.4V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC440	NJM79M18	−17.7V	−35.6V	0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC441	L78M15ML	26.2V	0V	15.0V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

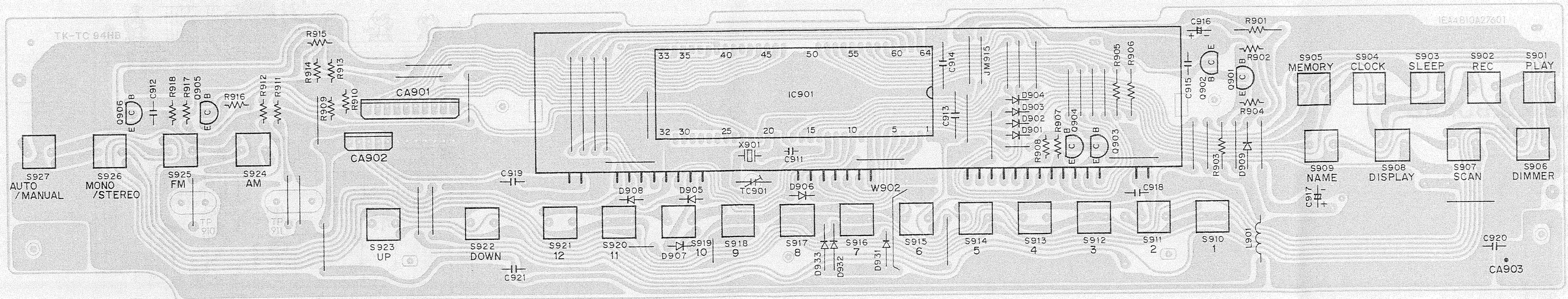
CD CONTROL P.C.BOARD
(BOTTOM VIEW)


C120
C121
Q71
Q68
R154
C126
X52
R156
Q69
R158
C127
R157
R159
R155
Q70
RA53
R151
R152
S53 PLAY
IC60
IC59
1
32
64
33
C125
S54 PAUSE
S52 STOP
S56 F.S.
S55 B.S.
S58 F.I.
S57 B.I.
D76
D75
RA51
RA52
S51 O/C
R153
CN51
CN52
Q76
Q75
C124
D77
D78
D79
D80
D81
D82
S75 5
S74 4
S73 3
S72 2
S71 1
S80 0
S79 9
S78 8
S77 7
S76 6
S61 CLEAR
S60 CHECR
S59 MEMORY
S69 TITLE
R160
R161
R162
R163
S70 SPACE
S65 A/B
S66 JUST
S64 EDIT
S63 TIME
S62 REP.
S67 RAN.
S68 INT.
C123

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q68	2SC3400	0V	5.0V	0V	Q70	2SC536	0V	5.0V	0V	Q75	DTC114	− 20.6V	5.0V	− 20.7V
Q69	2SC536	0V	5.0V	0V	Q71	2SC3400	0V	0V	0V	Q76	DTC114	− 20.6V	5.0V	− 20.8V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC59	M50957	5.0V	0.1V	0V	0.1V	0.1V	5.0V	5.0V	4.9V	4.9V	4.9V	0V	4.9V	4.9V	3.9V	0V	0V	4.9V	0V	0V	4.9V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	2.2V	1.0V	0.3V	2.4V	0V	2.4V	− 0.9V	− 0.9V	− 0.9V	− 0.9V	− 23.6V	− 21.0V	− 20.6V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		− 21.0V	− 21.0V	− 21.0V	− 21.1V	− 21.1V	− 21.1V	− 21.1V	− 21.1V	− 23.3V	− 11.7V	− 11.6V	− 23.7V	− 14.0V	− 18.6V	− 18.7V	− 11.7V	− 18.6V	− 18.7V	− 11.6V	− 18.7V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		− 18.6V	− 11.6V	− 18.6V	− 6.7V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
IC60	M6M80021P	5.0V	5.0V	0V	0V	0V	5.0V	5.0V	4.9V	—	—	—	—	—	—	—	—	—	—	—	—

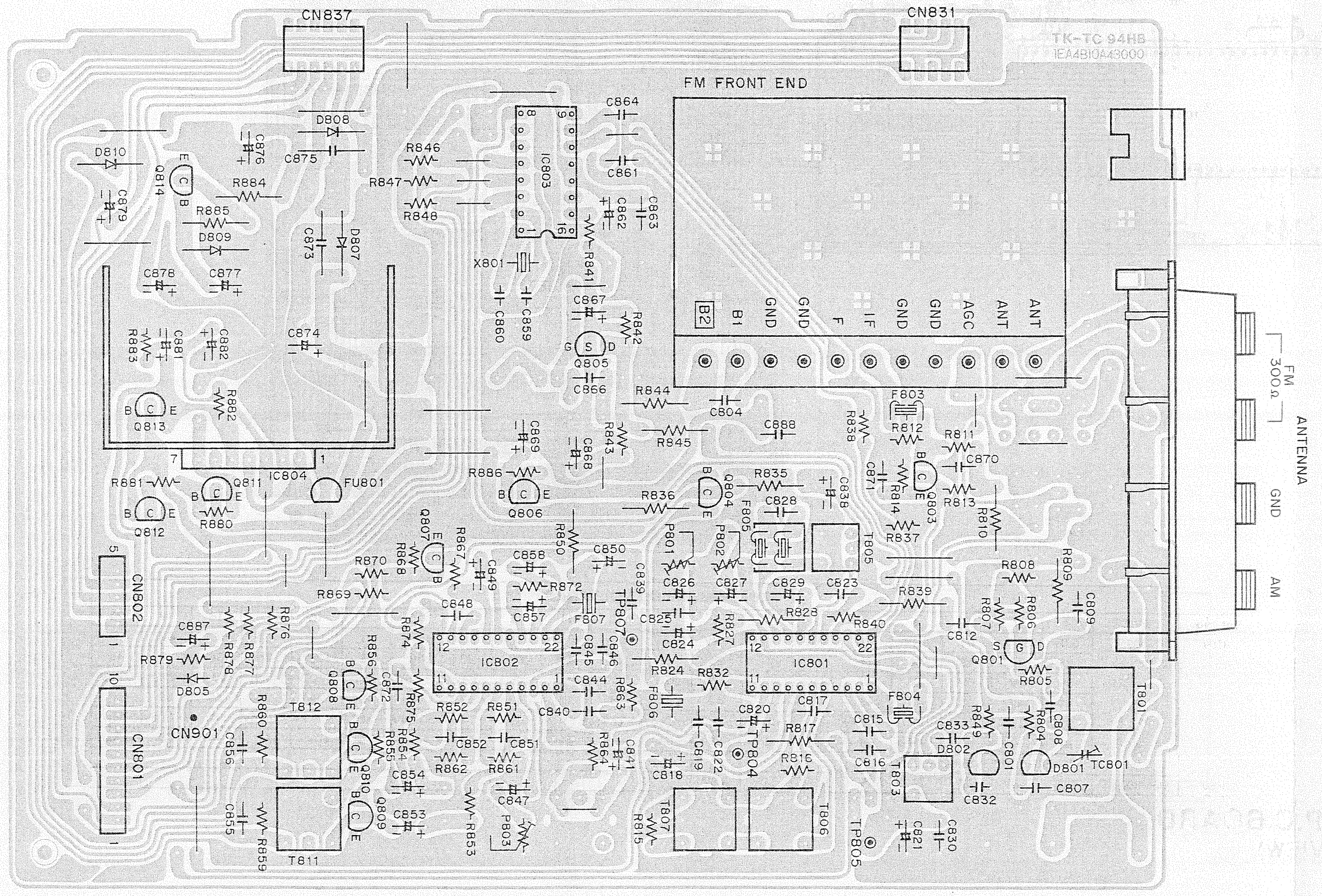
TUNER FRONT P.C.BOARD
(BOTTOM VIEW)


TK-TC 94HB
IEA4B0A27301
R915
R914
R913
R909
R910
CA901
Q906
C912
R918
R917
Q905
R916
R912
R911
CA902
S927 AUTO /MANUAL
S926 MONO /STEREO
S925 FM
S924 AM
C919
IC901
33 35 40 45 50 55 60 64
32 30 25 20 15 10 5 1
C914
JM915
C913
X901
C911
TC901
D908
D905
D906
W902
D904
D903
D902
D901
R908
R907
Q904
Q903
R905
R906
C916
R901
R902
Q902
Q901
C915
R904
R903
D909
C918
S905 MEMORY
S904 CLOCK
S903 SLEEP
S902 REC
S901 PLAY
S909 NAME
S908 DISPLAY
S907 SCAN
S906 DIMMER
C917
S923 UP
S922 DOWN
C921
S921 12
S920 11
D907
S919 10
S918 9
S917 8
S916 7
S915 6
S914 5
S913 4
S912 3
S911 2
S910 1
D933
D932
D931
L901
C920
CA903

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q901	2SA608	0V	− 0.5V	2.7V	Q903	2SC3330	− 24.7V	4.5V	− 24.6V	Q905	2SC536	0V	5.5V	0V
Q902	2SC536	− 0.5V	4.4V	0V	Q904	2SC3330	− 24.7V	4.5V	− 24.6V	Q906	2SC536	0V	5.5V	0V

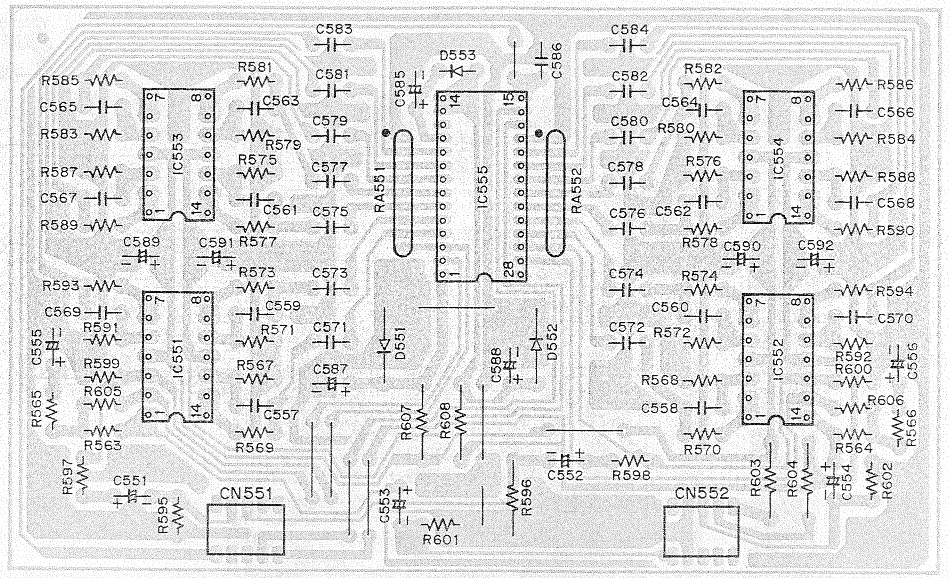
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC901	TMP47C870N	− 27.2V	− 26.4V	− 26.0V	− 26.4V	− 27.0V	− 26.0V	− 26.0V	− 26.0V	− 23.5V	− 26.7V	− 26.0V	− 26.0V	− 26.7V	0V	0V	0V	0V	0V	2.2V	2.1V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		4.6V	4.9V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	5.5V	0.3V	0V	0.8V	0.5V	0V	0V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		5.5V	0V	5.5V	0V	0V	0V	0V	− 24.6V	− 24.6V	− 24.6V	− 24.7V	− 24.7V	− 24.7V	− 24.6V	− 24.7V	− 24.7V	− 24.6V	− 24.6V	3.3V	− 10.4V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		− 15.9V	− 18.8V	− 15.9V	4.5V	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TUNER MAIN P.C.BOARD
(BOTTOM VIEW)



CN837
CN831
FM FRONT END
TK-TC 94HB
B2
B1
GND
GND
F
IF
GND
GND
AGC
ANT
ANT
FM 300Ω
ANTENNA
GND
AM
IC803
IC804
IC802
IC801
CN802
CN801
CN901
FU801
X801
T811
T812
T801
T803
T805
T806
T807
TP801
TP804
TP805
TC801
Q801
Q803
Q804
Q805
Q806
Q807
Q808
Q809
Q810
Q811
Q812
Q813
Q814
D801
D802
D805
D807
D808
D809
D810
F803
F804
F805
F806
F807

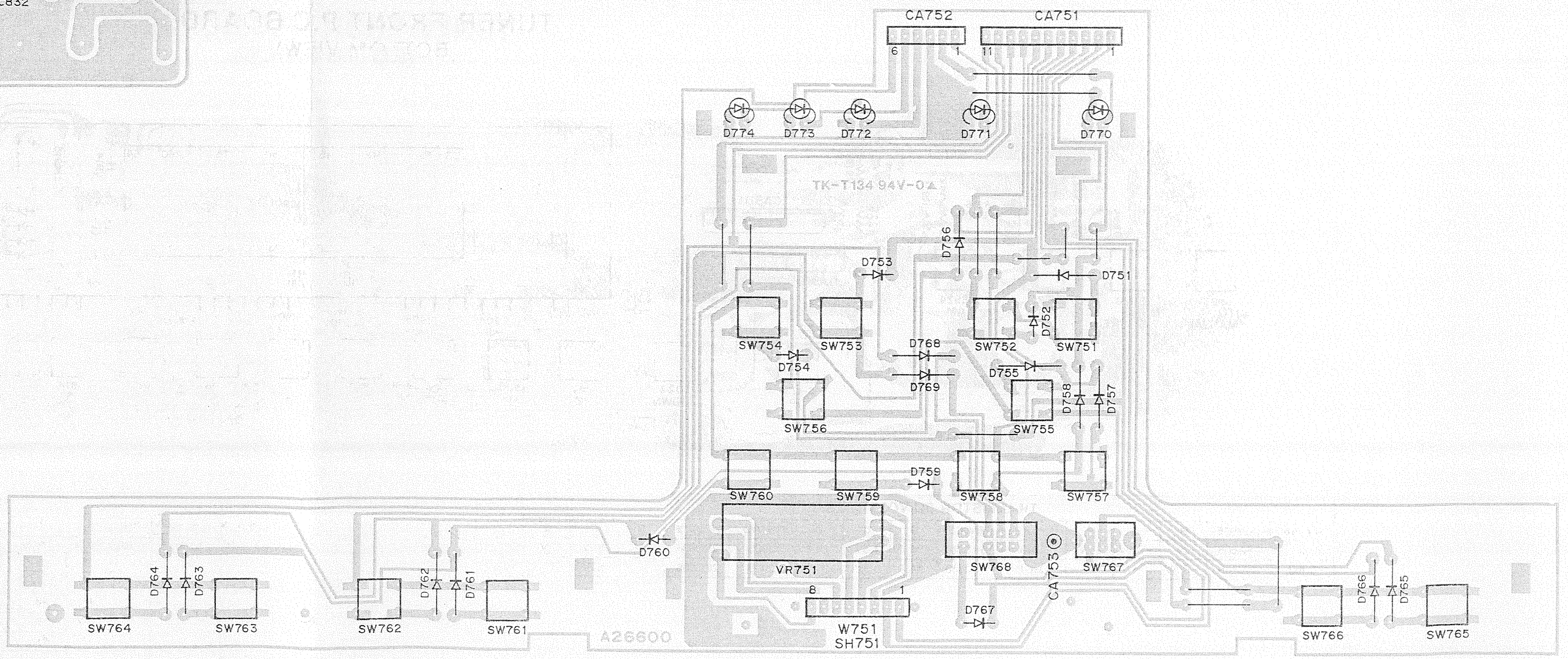
GRAPHIC EQALIZER P.C.BOARD
(BOTTOM VIEW)



IC551
IC552
IC553
IC554
IC555
RA551
RA552
D551
D552
D553
CN551
CN552

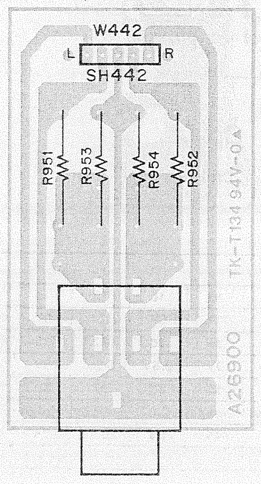
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC551	BA14741	−4.0V	−4.0V	−3.9V	0V	−4.1V	0V	−4.2V	−4.2V	−4.2V	−4.0V	−17.3V	−4.0V	−4.3V	−4.3V	–	–	–	–	–	–
IC552	BA14741	0V	0V	0V	0V	0V	−8.6V	0V	0V	−0.1V	0V	0V	0V	0V	0V	–	–	–	–	–	–
IC553	BA14741	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−17.1V	0V	0V	0V	–	–	–	–	–	–
IC554	BA14741	0V	0V	0V	17.7V	0V	0V	0V	0V	0V	0V	−17.1V	0V	0V	0V	–	–	–	–	–	–
IC555	LC7522	6.7V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−6.6V	−6.6V	−6.6V	−6.6V	4.9V	0V	0V	0V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	–	–	–	–	–	–	–	–	–	–	–	–

DECK SWITCH P.C.BOARD
(BOTTOM VIEW)



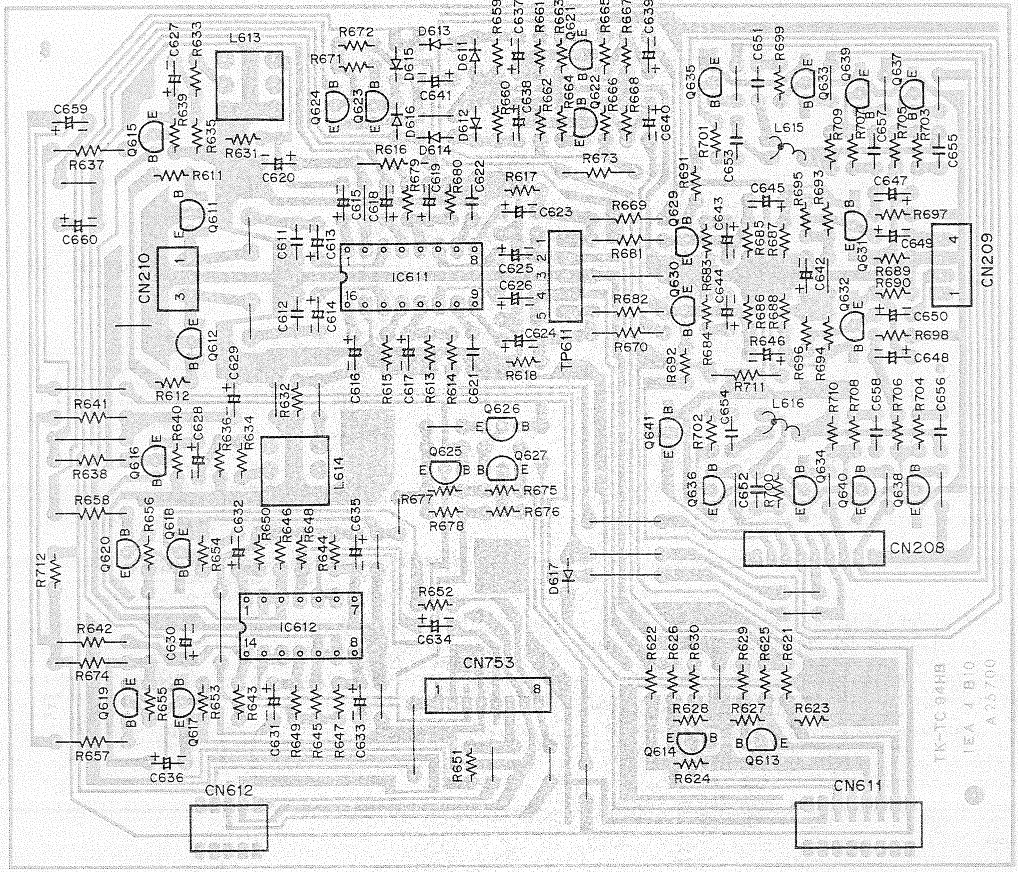
CA752
CA751
TK-T134 94V-0
D770
D771
D772
D773
D774
SW751
SW752
SW753
SW754
SW755
SW756
SW757
SW758
SW759
SW760
SW761
SW762
SW763
SW764
SW765
SW766
SW767
SW768
VR751
CA753
W751
SH751
A26600

HEADPHONE P.C.BOARD
(BOTTOM VIEW)

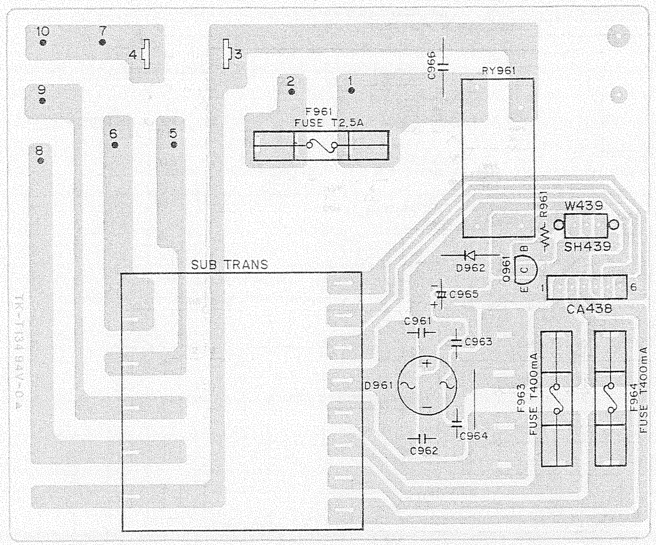


W442
L
R
SH442
R951
R953
R954
R952
TK-T134 94V-0
A26900

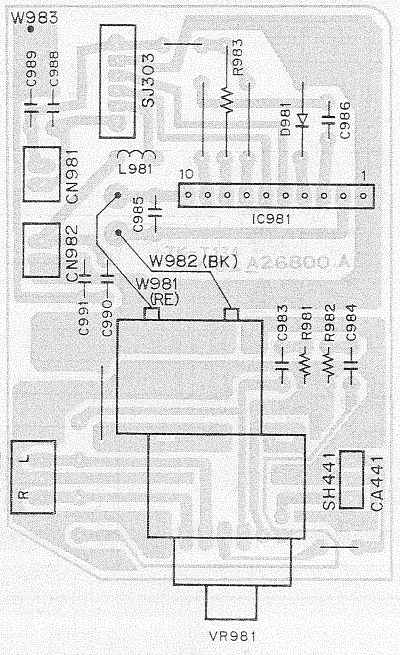
DOLBY P.C.BOARD
(BOTTOM VIEW)



SUB POWER P.C.BOARD
(BOTTOM VIEW)



MOTOR VOLUME P.C.BOARD
(BOTTOM VIEW)



TRANSISTOR DC VOLTAGES				
Ref. No.	DEVICE	B	C	E
Q961	2SC536	0.7V	0.1V	0V

IC PIN NUMBERS DC VOLTAGES											
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10
IC981	LB1641	0V	0.5V	0.7V	1.3V	0V	0V	11.7V	11.6V	0.7V	0.5V

REFERENCE VOLTAGES

Voltage Table of Deck Control P.C.Board

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q201	2SC536	0.6V	0V	0V	Q215	2SC3400	0V	14.9V	0V	Q223	2SD1913	9.0V	11.6V	8.3V
Q202	2SC536	0V	0V	0V	Q216	2SB808	11.0V	11.6V	11.6V	Q224	2SC536	0V	4.9V	0V
Q208	2SC3708	0V	0V	0V	Q217	2SC536	0.6V	0V	0V	Q225	2SC536	0.7V	0V	0V
Q209	2SA984	15.0V	0V	15.0V	Q218	2SC536	0V	0.6V	0V	Q226	2SD734	5.6V	11.7V	5.0V
Q210	2SA984	14.3V	15.0V	15.0V	Q219	2SD400	0V	11.1V	0V	Q227	2SA608	2.5V	3.2V	3.2V
Q211	2SA984	14.9V	0V	15.0V	Q220	2SB808	11.0V	11.6V	11.6V	Q228	2SC3400	0V	4.1V	0V
Q212	2SC3400	0V	14.9V	0V	Q221	2SC536	0.6V	0V	0V	Q229	2SC536	0V	5.0V	0V
Q214	2SC3400	4.9V	0V	0V	Q222	2SD400	0V	11.1V	0V	Q230	2SC536	0V	5.0V	0V

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC201	LA3246	0V	0V	0.5V	3.7V	3.7V	0V	0V	3.6V	0V	0V	9.0V	9.0V	8.2V	0V	4.9V	3.6V	3.6V	0.5V	0V	0V
IC202	LA2000	1.9V	0V	1.9V	0V	0V	0V	0.7V	0V	0V	–	–	–	–	–	–	–	–	–	–	–
IC203	UPC1330HA	0V	0V	0V	0V	0V	15.0V	0V	0V	0V	–	–	–	–	–	–	–	–	–	–	–
IC204	TA8121AN	0V	0V	0V	0V	0V	0.7V	0.7V	11.6V	0.4V	0V	0V	0.5V	0V	0V	5.9V	0.6V	8.3V	0V	7.1V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		1.5V	0V	2.4V	6.2V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC205	TA8121AN	0V	0V	0V	0V	0V	1.5V	1.5V	11.7V	1.3V	0V	0V	1.4V	0V	1.4V	5.9V	0V	8.3V	0V	7.1V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	2.4V	6.2V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC206	LC4001B	4.9V	4.9V	0V	4.9V	0V	0V	0V	0V	0V	4.9V	0V	4.9V	4.9V	5.0V	–	–	–	–	–	–
IC207	M50954	4.9V	0V	0V	0V	4.9V	0V	0V	0V	1.3V	1.2V	1.2V	3.7V	3.8V	3.8V	3.8V	4.9V	0V	1.1V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	4.5V	0V	0V	5.0V	3.7V	4.0V	4.9V	0V	4.9V	0.3V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		0V	0V	0V	0V	0V	0V	0V	5.0V	0V	0V	0V	0V	0V	0V	4.9V	0V	0V	4.8V	0V	0V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		0V	0V	0V	4.9V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Voltage Table of Amp Control P.C.Board

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q301	2SD734	0.6V	0V	0V	Q306	2SA608	4.2V	4.9V	4.9V	Q311	2SC3899	−28.0V	−0.4V	−28.0V
Q302	2SD734	0.6V	0V	0V	Q307	2SC3899	−28.0V	−0.4V	−28.0V	Q312	2SC3899	−27.9V	−0.4V	−27.9V
Q303	2SD734	0.6V	0V	0V	Q308	2SC3899	−27.8V	−0.4V	−26.4V	Q313	2SC3899	−28.0V	−0.4V	−28.0V
Q304	2SC536	0V	4.9V	0V	Q309	2SA1509	−0.4V	−28.0V	−0.4V	Q314	2SC3899	−27.9V	−0.4V	−27.9V
Q305	2SC536	0V	4.9V	0V	Q310	2SA1509	−0.3V	−27.5V	−0.4V	Q315	2SA1509	8.6V	0V	4.9V

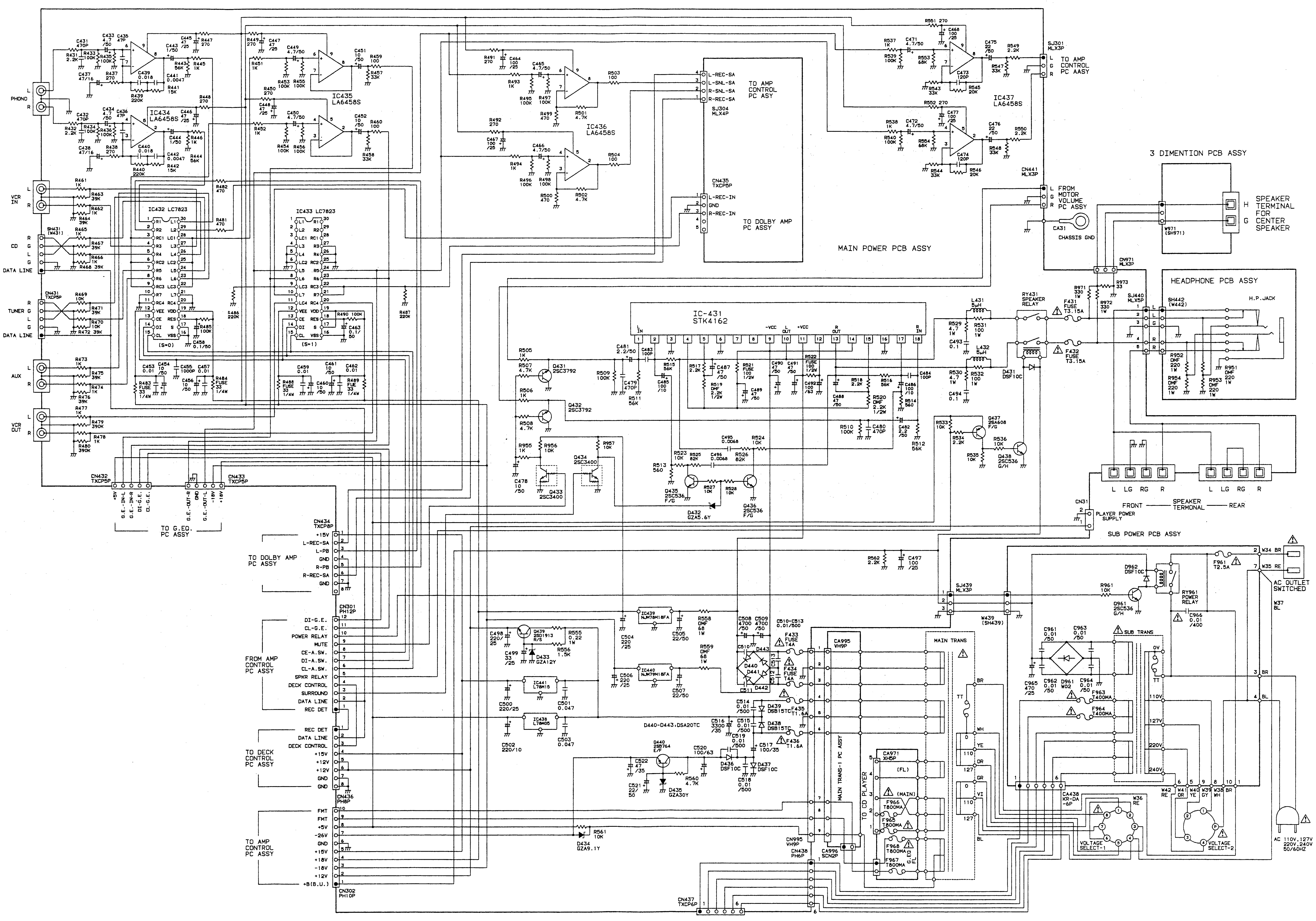
IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC301	LC6538D	−11.1V	−27.3V	−24.5V	−24.9V	−24.9V	−24.7V	−24.8V	−24.8V	−21.6V	−24.7V	−24.7V	−24.7V	−24.7V	−24.8V	4.9V	2.3V	2.1V	0V	0V	4.9V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		2.4V	2.0V	5.5V	0.5V	5.1V	0.3V	4.5V	0V	8.0V	6.1V	0V	0V	0V	0V	4.9V	4.9V	4.9V	4.9V	0V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		0V	0V	0V	4.9V	−0.3V	0V	0V	0V	4.0V	0V	0V	0V	0V	−7.4V	−12.9V	−15.6V	−15.6V	−10.2V	−10.1V	−12.4V
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		−21.0V	−28.2V	−18.3V	−20.9V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC302	L78LR05	12.8V	5.7V	0V	4.9V	4.9V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC303,304	LC7565	−0.4V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	0V	0V	0V	0V	0V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V	−27.9V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		−27.9V	−0.4V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
IC305,306	BA14741	−0.1V	0V	0V	15.0V	0V	0V	0V	−0.1V	0V	0V	−14.5V	0V	0V	0V	–	–	–	–	–	–
IC307,308	BA14741	0V	0V	0V	15.0V	0V	0V	0V	0V	0V	0V	−14.5V	0V	0V	0V	–	–	–	–	–	–
IC309	LC4913	−0.2V	−0.2V	−0.1V	0V	−0.2V	0V	0V	0V	−0.2V	0V	−0.1V	−0.2V	−0.2V	−0.4V	–	–	–	–	–	–
IC310	LC4011B	−0.4V	−0.4V	−0.2V	−0.2V	−0.1V	−0.2V	0V	−0.2V	−0.1V	−0.2V	−0.2V	−0.4V	−0.4V	−0.4V	–	–	–	–	–	–

Voltage Table of Dolby P.C.Board

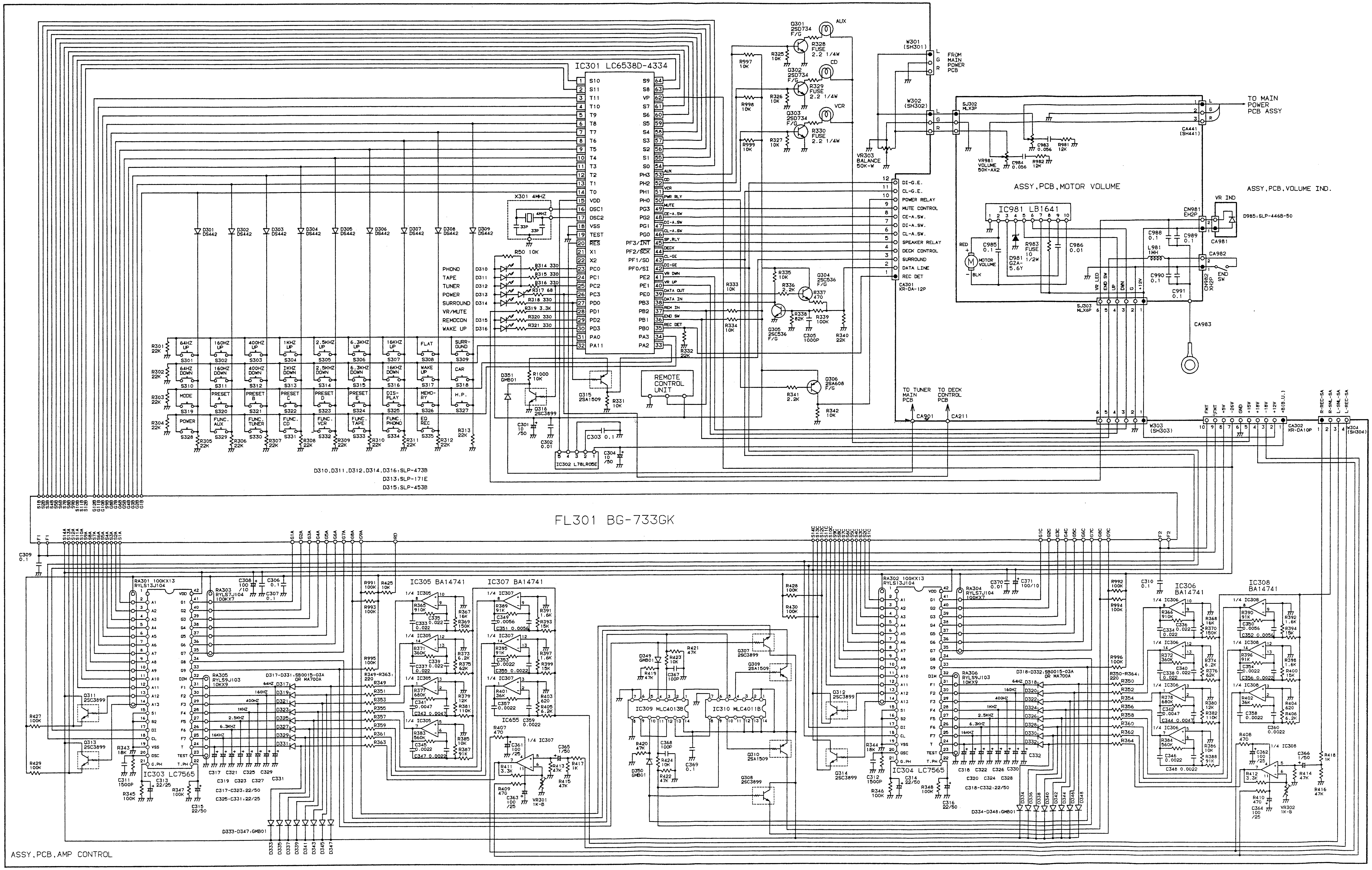
TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q611	2SD1012	0.6V	0V	0V	Q621	2SC536	1.1V	8.1V	0.5V	Q632	2SC536	2.2V	7.6V	1.6V
Q612	2SD1012	0.6V	0V	0V	Q622	2SC536	1.1V	8.3V	0.5V	Q633	2SC3400	4.2V	0V	0V
Q613	2SD1012	0.6V	0V	0V	Q623	2SC536	0.6V	0V	0V	Q634	2SC3400	4.2V	0V	0V
Q614	2SD1012	0.6V	0V	0V	Q624	2SC3400	0V	9.8V	0V	Q635	2SC3400	0V	0V	0V
Q615	2SC536	7.2V	12.4V	6.6V	Q625	2SC3400	0V	13.3V	0V	Q636	2SC3400	0V	0V	0V
Q616	2SC536	7.2V	12.4V	6.6V	Q626	2SC3400	0V	14.9V	0V	Q637	2SC3400	15.0V	0V	0V
Q617	2SC536	0V	0V	0V	Q627	2SA1346	14.9V	0V	15.0V	Q638	2SC3400	15.0V	0V	0V
Q618	2SC536	0V	0V	0V	Q629	2SD1012	0.6V	0V	0V	Q639	2SC3400	0V	0V	0V
Q619	2SC536	0.2V	15.0V	0V	Q630	2SD1012	0.6V	0V	0V	Q640	2SC3400	0V	0V	0V
Q620	2SC536	0.2V	15.0V	0V	Q631	2SC536	2.1V	7.7V	1.5V	Q641	2SA1346	0V	0V	0V

IC PIN NUMBERS DC VOLTAGES																	
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC611	HA12136A	6.4V	13.1V	6.4V	6.2V	0.3V	6.4V	1.2V	6.4V	6.4V	1.2V	6.4V	4.0V	0.9V	6.4V	0V	6.4V
IC612	LC4066B	7.3V	7.2V	7.2V	7.2V	13.4V	13.4V	0V	7.2V	7.2V	7.2V	7.3V	0V	0V	14.8V	–	–

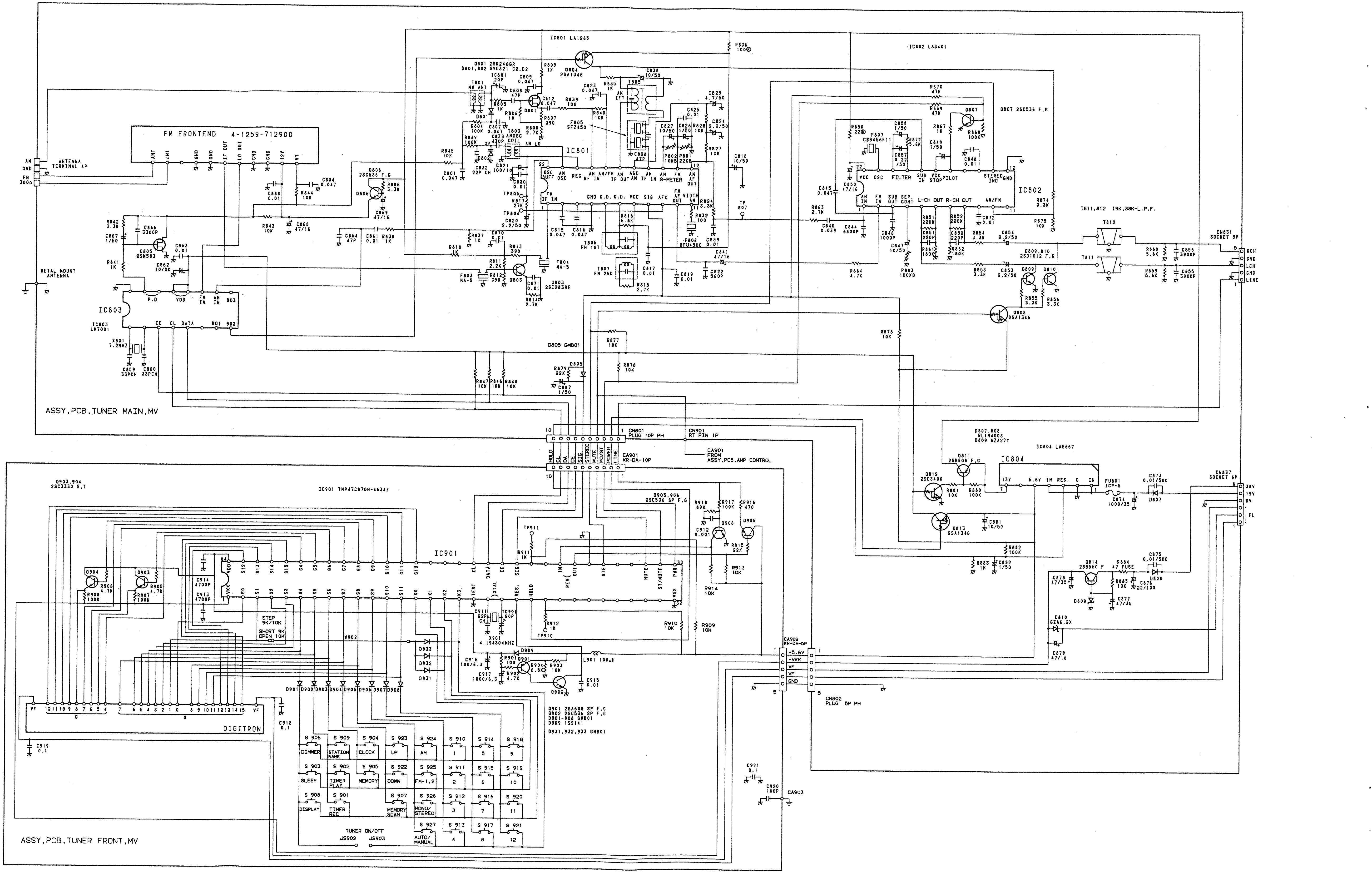
SCHEMATIC DIAGRAM (Main Power Section)


PHONO
VCR IN
CD
DATA LINE
TUNER
AUX
VCR OUT
IC434 LA6458S
IC435 LA6458S
IC436 LA6458S
IC437 LA6458S
IC432 LC7823
IC433 LC7823
TO AMP CONTROL PC ASY
SJ304 MLX4P
CN435 TXCP5P
TO DOLBY AMP PC ASSY
MAIN POWER PCB ASSY
SJ301 MLX3P
TO AMP CONTROL PC AASY
CN441 MLX3P
FROM MOTOR VOLUME PC ASSY
CA31
CHASSIS GND
3 DIMENTION PCB ASSY
SPEAKER TERMINAL FOR CENTER SPEAKER
W971 (SH971)
CN971 MLX3P
HEADPHONE PCB ASSY
SH442 (W442)
H.P.JACK
SJ440 MLX5P
IC-431 STK4162
RY431 SPEAKER RELAY
F431 FUSE T3.15A
F432 FUSE T3.15A
L431 5μH
L432 5μH
D431 DSF10C
Q431 2SC3792
Q432 2SC3792
Q433 2SC3400
Q434 2SC3400
Q435 2SC536 F/G
Q436 2SC536 F/G
Q437 2SA608 F/G
Q438 2SC536 G/H
D432 GZA5.6Y
CN432 TXCP5P
CN433 TXCP5P
TO G.EQ. PC ASSY
CN434 TXCP8P
TO DOLBY AMP PC ASSY
CN301 PH12P
FROM AMP CONTROL PC ASSY
TO DECK CONTROL PC ASSY
CN436 PH8P
TO AMP CONTROL PC ASSY
CN302 PH10P
CN31
PLAYER POWER SUPPLY
SUB POWER PCB ASSY
FRONT — SPEAKER TERMINAL — REAR
L LG RG R
IC439 NJM78M18FA
IC440 NJM79M18FA
IC441 L78M15
IC438 L78M05
Q439 2SD1913 R/S
D433 GZA12Y
D434 GZA9.1Y
D435 GZA30Y
Q440 2SB764 E/F
D436 DSF10C
D437 DSF10C
D438 DSB15TC
D439 DSB15TC
D440-D443:DSA20TC
F433 FUSE T4A
F434 FUSE T4A
F435 T1.6A
F436 T1.6A
CA995 VH9P
CN995 VH9P
CN438 PH6P
CA996 SCN2P
MAIN TRANS-1 PC ASSY
TO CD PLAYER
CA971 XH5P
(FL)
(MAIN)
F965 T800MA
F966 T800MA
F967 T800MA
F968 T800MA
MAIN TRANS
SJ439 MLX3P
W439 (SH439)
D962 DSF10C
RY961 POWER RELAY
Q961 2SC536 G/H
F961 T2.5A
AC OUTLET SWITCHED
SUB TRANS
F963 T400MA
F964 T400MA
D961 W02
CA438 KR-DA -6P
VOLTAGE SELECT-1
VOLTAGE SELECT-2
AC 110V,127V 220V,240V 50/60HZ
CN437 TXCP6P

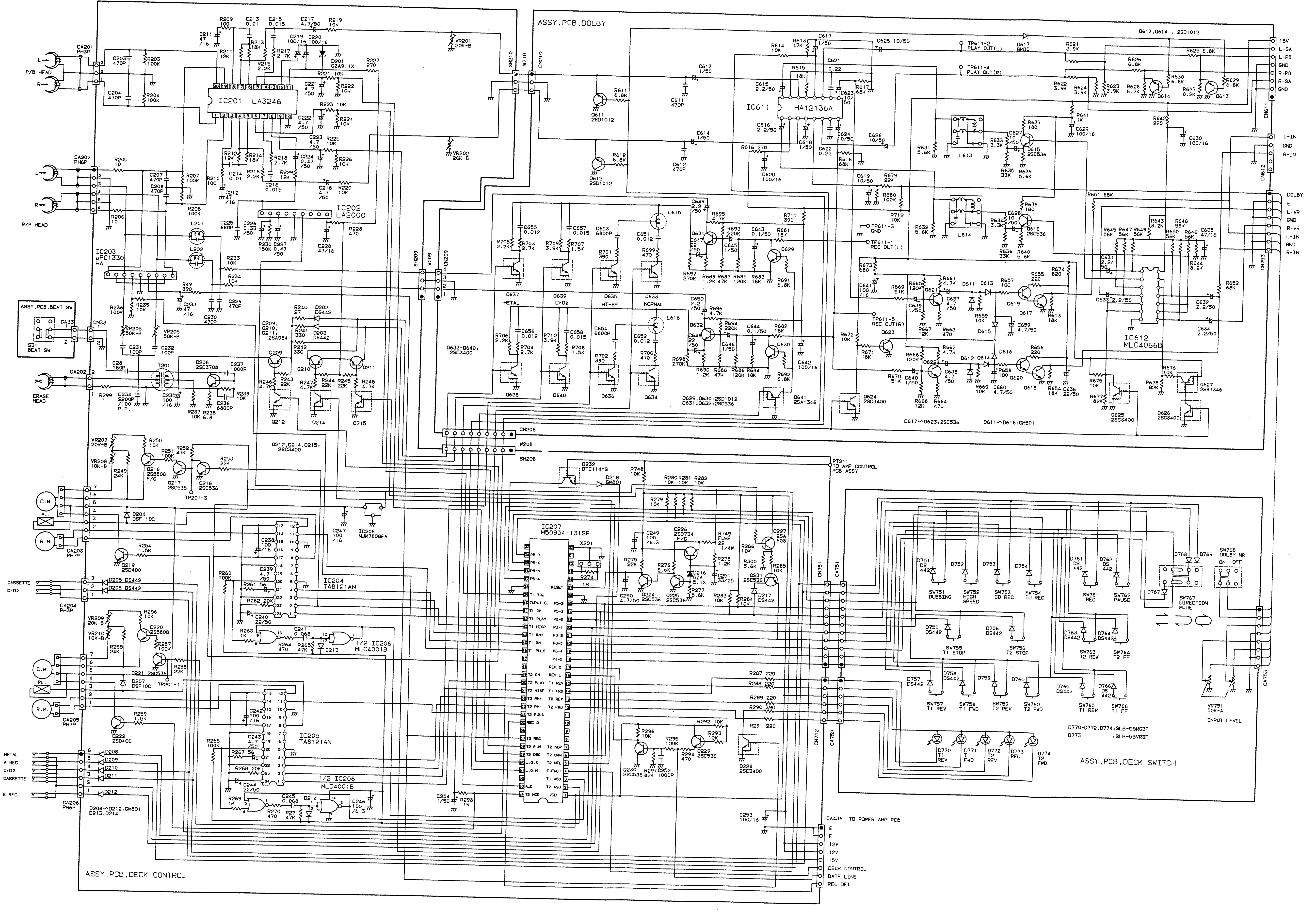
SCHEMATIC DIAGRAM (Amp Control Section)


IC301 LC6538D-4334
FL301 BG-733GK
IC302 L78LR05E
IC303 LC7565
IC304 LC7565
IC305 BA14741
IC306 BA14741
IC307 BA14741
IC308 BA14741
IC309 MLC4013B
IC310 MLC4011B
IC655
IC981 LB1641
X301 4MHZ
REMOTE CONTROL UNIT
TO MAIN POWER PCB ASSY
FROM MAIN POWER PCB
TO TUNER MAIN PCB
TO DECK CONTROL PCB
ASSY.PCB.MOTOR VOLUME
ASSY.PCB.VOLUME IND.
ASSY.PCB.AMP CONTROL
AUX
CD
VCR
PHONO
TAPE
TUNER
POWER
SURROUND
VR/MUTE
REMOCON
WAKE UP
D310,D311,D312,D314,D316:SLP-473B
D313:SLP-171E
D315:SLP-453B
D333-D347:GMB01
D334-D348:GMB01
D317-D331:SB0015-03A OR MA700A
D318-D332:SB0015-03A OR MA700A
D985:SLP-446B-50
VR303 BALANCE 50K-W
VR981 VOLUME 50K-AX2
VR301 1K-B
VR302 1K-B

SCHEMATIC DIAGRAM (Tuner Section)

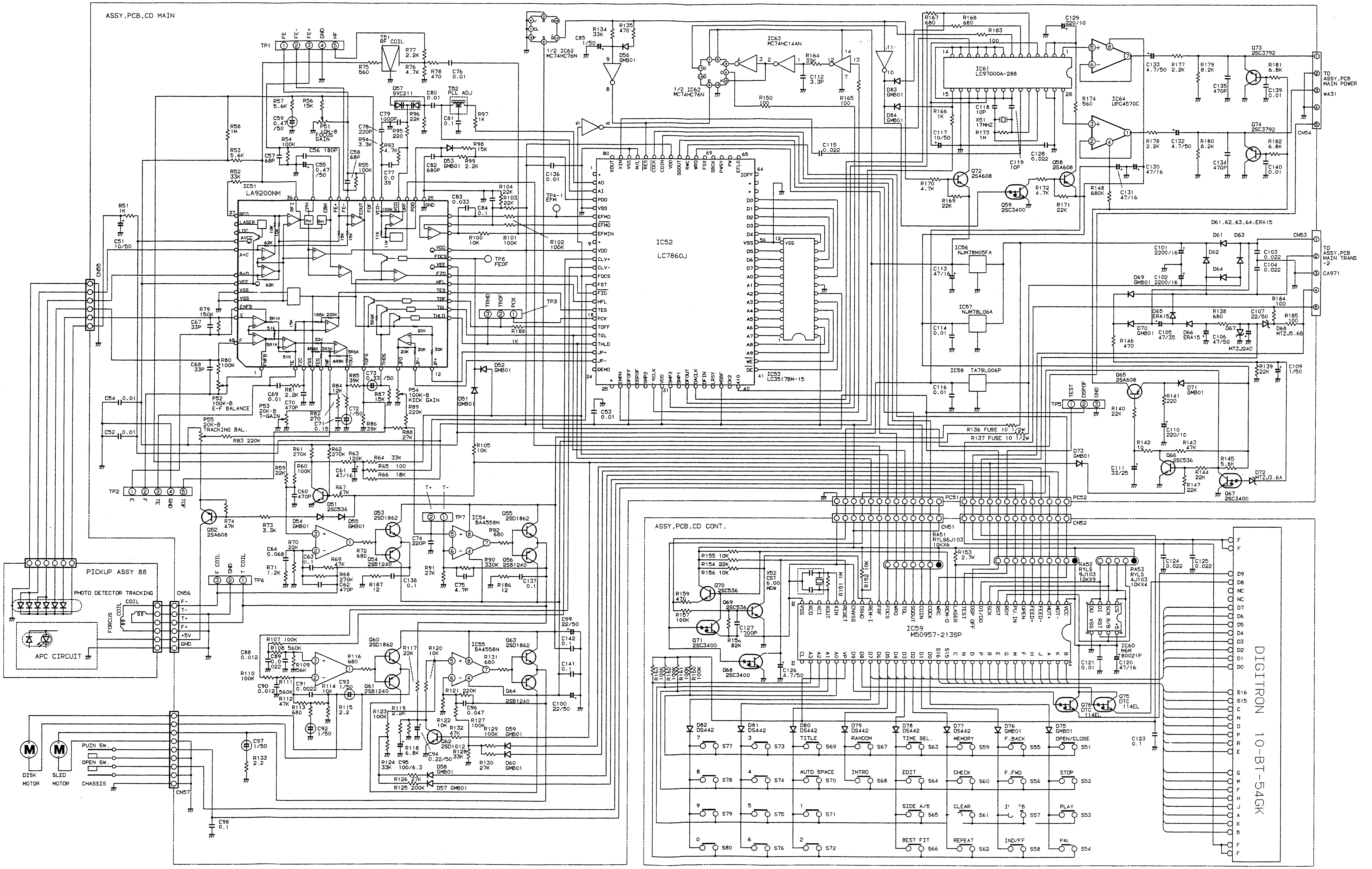

IC801 LA1265
IC802 LA3401
IC803 LM7001
IC804 LA5667
IC901 TMP47C870N-4634Z
FM FRONTEND 4-1259-712900
ANTENNA TERMINAL 4P
METAL MOUNT ANTENNA
ASSY,PCB,TUNER MAIN,MV
ASSY,PCB,TUNER FRONT,MV
CN801 PLUG 10P PH
CN901 RT PIN 1P
CA901 KR-DA-10P
CA901 FROM ASSY,PCB,AMP CONTROL
CA902 KR-DA-5P
CN802 PLUG 5P PH
CN831 SOCKET 5P
CN837 SOCKET 6P
CA903
DIGITRON
Q807 2SC536 F,G
Q806 2SC536 F,G
Q805 2SK583
Q803 2SC2839E
Q808 2SA1346
Q809,810 2SD1012 F,G
Q811 2SB808 F,G
Q812 2SC3400
Q813 2SA1346
Q814 2SB560 F
Q801 2SK246GR
D801,802 SVC321 C2,D2
Q804 2SA1346
D805 GMB01
D807,808 RL1N4003
D809 GZA27Y
D810 GZA6.2X
T811,812 19K,38K-L.P.F.
Q903,904 2SC3330 S,T
Q905,906 2SC536 SP F,G
Q901 2SA608 SP F,G
Q902 2SC536 SP F,G
D901-908 GMB01
D909 1SS141
D931,932,933 GMB01
X801 7.2MHZ
X901 4.194304MHZ
L901 100μH
FU801 ICP-5
STEP 9K/10K
SHORT 9K
OPEN 10K
TUNER ON/OFF
JS902 JS903
S 906 DIMMER
S 909 STATION NAME
S 904 CLOCK
S 923 UP
S 924 AM
S 910 1
S 914 5
S 918 9
S 903 SLEEP
S 902 TIMER PLAY
S 905 MEMORY
S 922 DOWN
S 925 FM-1,2
S 911 2
S 915 6
S 919 10
S 908 DISPLAY
S 901 TIMER REC
S 907 MEMORY SCAN
S 926 MONO/STEREO
S 912 3
S 916 7
S 920 11
S 927 AUTO/MANUAL
S 913 4
S 917 8
S 921 12
HOLD CL DA CE SIG STEREO MUTE MOIST POWER LINE
+5.6V -VKK VF VF GND
RCH GND LCH GND LINE
38V 19V 0V FL
AM GND FM 300Ω

SCHEMATIC DIAGRAM (Deck Section)

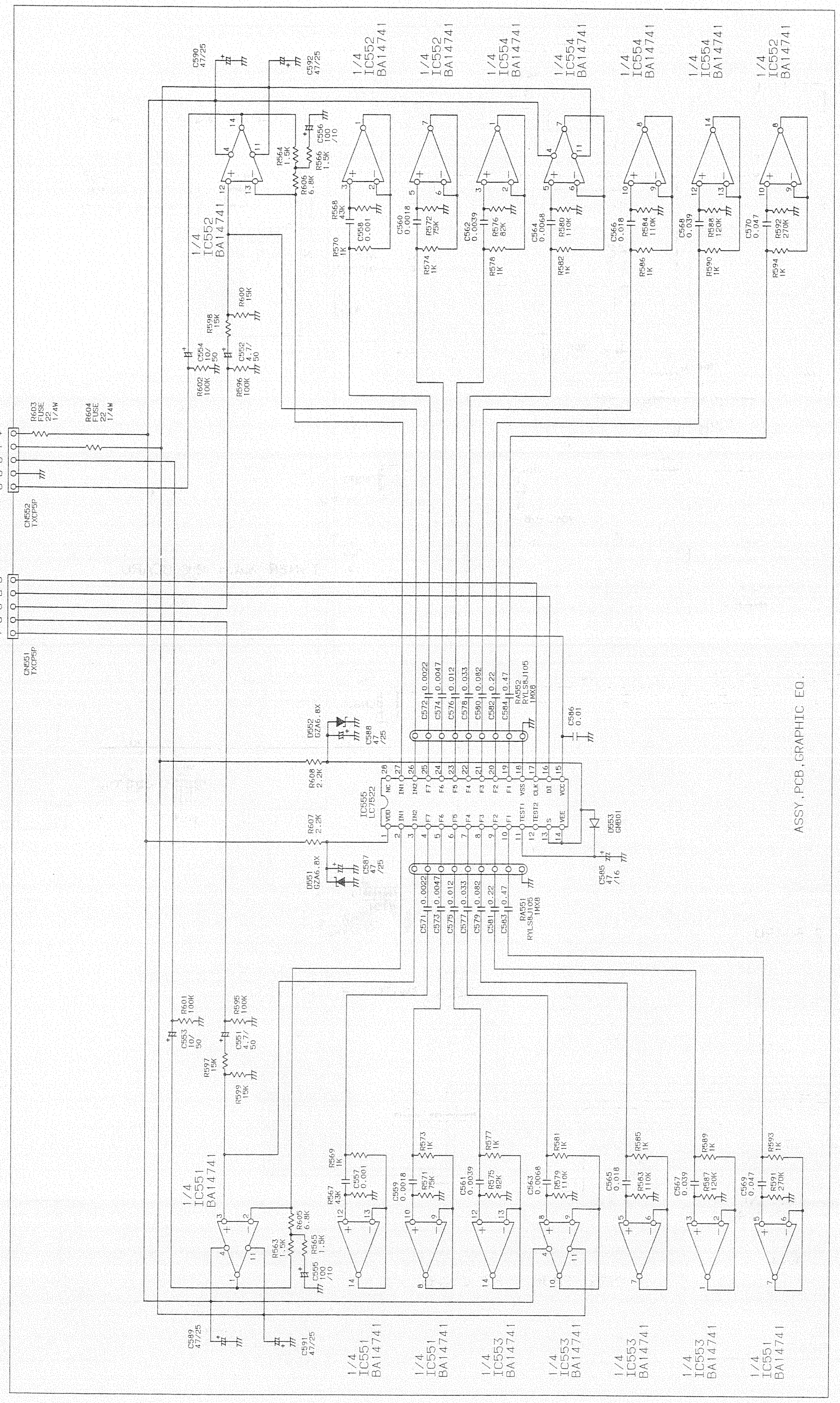


ASSY,PCB,DOLBY
ASSY,PCB,DECK CONTROL
ASSY,PCB,DECK SWITCH
ASSY,PCB,BEAT SW
P/B HEAD
R/P HEAD
ERASE HEAD
IC201 LA3246
IC202 LA2000
IC203 μPC1330 HA
IC204 TA8121AN
IC205 TA8121AN
1/2 IC206 MLC4001B
IC207 M50954-131SP
IC208 NJM7808FA
IC611 HA12136A
IC612 MLC4066B
CA201 PH3P
CA202 PH6P
CA203 PH7P
CA204 PH3P
CA205 PH7P
CA206 PH6P
CN208
W208
SH208
SH209
W209
CN209
SH210
W210
CN210
CN611
CN612
CN753
CN751
CA751
CN752
CA752
CA753
CA436 TO POWER AMP PCB
RT211 TO AMP CONTROL PCB ASSY
15V
L-SA
L-PB
GND
R-PB
R-SA
GND
L-IN
GND
R-IN
DOLBY
E
L-VR
GND
R-VR
L-IN
GND
R-IN
E
E
12V
12V
15V
DECK CONTROL
DATE LINE
REC DET.
C.M.
PL.
R.M.
CASSETTE
CrO2
METAL
A REC
CrO2
CASSETTE
B REC.
S31 BEAT SW
SW751 DUBBING
SW752 HIGH SPEED
SW753 CD REC
SW754 TU REC
SW761 REC
SW762 PAUSE
SW755 T1 STOP
SW756 T2 STOP
SW763 T2 REW
SW764 T2 FF
SW757 T1 REV
SW758 T1 FWD
SW759 T2 REV
SW760 T2 FWD
SW765 T1 REW
SW766 T1 FF
SW768 DOLBY NR ON OFF
SW767 DIRECTION MODE
VR751 50K-A INPUT LEVEL
D770~D772,D774:SLB-55MG3F
D773 :SLB-55VR3F
D208~D212:GMB01
D213,D214
Q613,Q614 : 2SD1012
Q629,Q630:2SD1012
Q631,Q632:2SC536
Q617~Q623:2SC536
D611~D616:GMB01
Q633~Q640: 2SC3400
Q212,Q214,Q215: 2SC3400
Q209,Q210,Q211: 2SA984
TP611-2 PLAY OUT(L)
TP611-4 PLAY OUT(R)
TP611-3 GND
TP611-1 REC OUT(L)
TP611-5 REC OUT(R)
TP201-3
TP201-1
METAL
CrO2
HI-SP
NORMAL

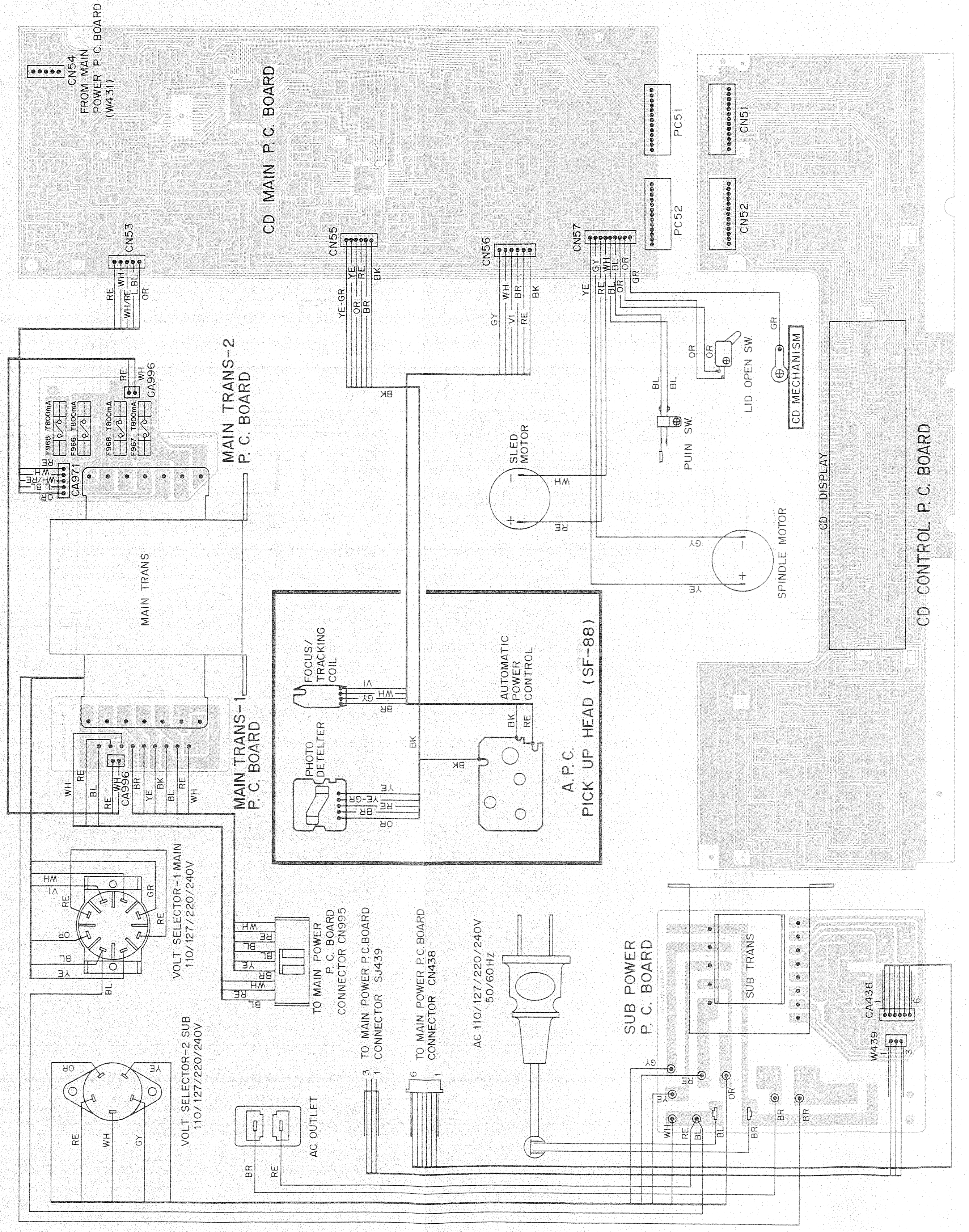
SCHEMATIC DIAGRAM (CD Main Section)


ASSY,PCB,CD MAIN
IC51 LA9200NM
IC52 LC7860J
IC53 LC3517BM-15
IC54 BA4558N
IC55 BA4558N
IC56 NJM78M05FA
IC57 NJM78L06A
IC58 TA79L006P
IC61 LC97000A-288
IC62 MC74HC76N
IC63 MC74HC14AN
IC64 UPC4570C
T51 RF COIL
T52 PLL ADJ
P51 10K-B FOCUS GAIN
P52 100K-B E-F BALANCE
P53 20K-B T-GAIN
P54 100K-B KICK GAIN
P55 20K-B TRACKING BAL.
TP1
TP2
TP3
TP4-1 EFM
TP5
TP6
TP7
TP8 FEOF
CN51
CN52
CN53
CN54
CN55
CN56
CN57
PC51
PC52
TO ASSY,PCB MAIN POWER W431
TO ASSY,PCB MAIN TRANS -2 CA971
D61,62,63,64:ERA15
PICKUP ASSY 88
PHOTO DETECTOR TRACKING COIL
FOCUS COIL
APC CIRCUIT
DISK MOTOR
SLED MOTOR
PUIN SW.
OPEN SW.
CHASSIS
ASSY,PCB,CD CONT.
IC59 M50957-213SP
IC60 M6M 80021P
X51 17MHZ
X52 CST 6.00 MGW
RA51 RYLS6J103 10KX6
RA52 RYLS 9J103 10KX9
PA53 RYLS 4J103 10KX4
DIGITRON 10-BT-54GK
TITLE
RANDOM
TIME SEL.
MEMORY
F.BACK
OPEN/CLOSE
AUTO SPACE
INTRO
EDIT
CHECK
F.FWD
STOP
SIDE A/B
CLEAR
PLAY
BEST FIT
REPEAT
IND/FF
PAL

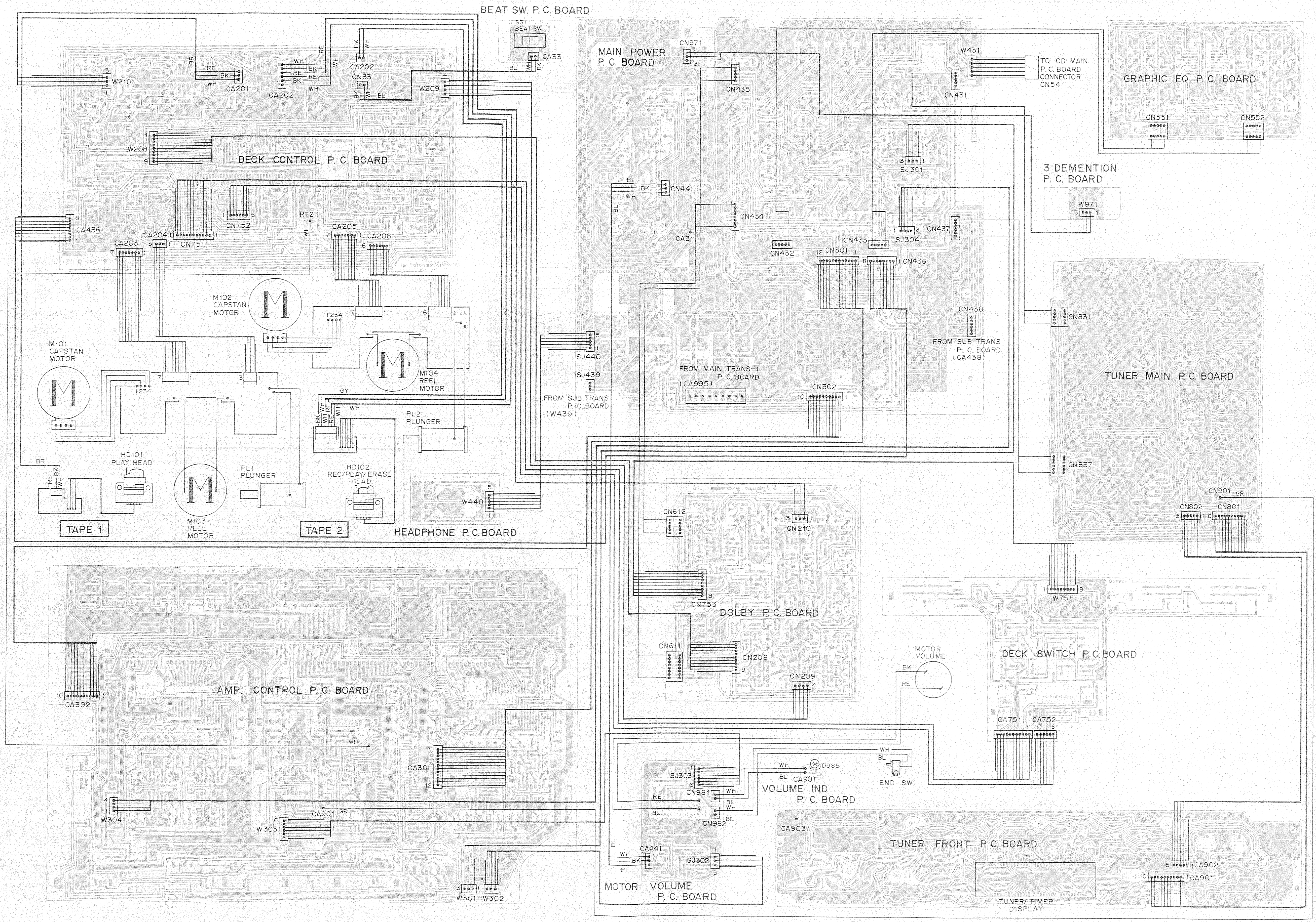
SCHEMATIC DIAGRAM (Graphic Eqalizer Section)


1/4 IC552 BA14741
1/4 IC554 BA14741
1/4 IC551 BA14741
1/4 IC553 BA14741
IC555 LC7522
CN552 TXDP5P
+18V
-18V
G.E. OUT-L
GND
G.E. OUT-R
CN551 TXDP5P
PL-G.E.
DI-G.E.
G.E. IN-R
G.E. IN-L
+5V
D551 GZA6.8X
D552 GZA6.8X
RA551 RXLSRJ105
RA552 RXLSRJ105
ASSY, PCB, GRAPHIC EQ.

WIRING DIAGRAM (CD Player / Power Supply Section)

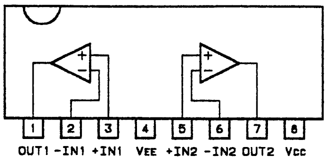

CN54 FROM MAIN POWER P.C. BOARD (W431)
CD MAIN P.C. BOARD
PC51
CN51
PC52
CN52
CN53
CN55
CN56
CN57
MAIN TRANS-2 P.C. BOARD
CA996
CA971
MAIN TRANS
MAIN TRANS-1 P.C. BOARD
SLED MOTOR
LID OPEN SW.
CD MECHANISM
PUIN SW.
CD DISPLAY
CD CONTROL P.C. BOARD
SPINDLE MOTOR
FOCUS/TRACKING COIL
PHOTO DETELTER
AUTOMATIC POWER CONTROL
A.P.C.
PICK UP HEAD (SF-88)
VOLT SELECTOR-1 MAIN 110/127/220/240V
TO MAIN POWER P.C. BOARD CONNECTOR CN995
TO MAIN POWER P.C.BOARD CONNECTOR SJ439
TO MAIN POWER P.C. BOARD CONNECTOR CN438
AC 110/127/220/240V 50/60HZ
SUB POWER P.C. BOARD
SUB TRANS
CA438
W439
VOLT SELECTOR-2 SUB 110/127/220/240V
AC OUTLET

WIRING DIAGRAM (Main Unit Section)


BEAT SW. P. C. BOARD
S31 BEAT SW.
CA33
W210
CA201
CA202
CA202
CN33
W209
W208
DECK CONTROL P. C. BOARD
CA436
CA203
CA204
CN751
CN752
RT211
CA205
CA206
M102 CAPSTAN MOTOR
M101 CAPSTAN MOTOR
M104 REEL MOTOR
M103 REEL MOTOR
PL2 PLUNGER
PL1 PLUNGER
HD101 PLAY HEAD
HD102 REC/PLAY/ERASE HEAD
TAPE 1
TAPE 2
W440
HEADPHONE P. C. BOARD
MAIN POWER P. C. BOARD
CN971
CN435
CN441
CN434
CA31
CN432
CN433
CN301
CN436
SJ304
CN437
SJ301
W431
TO CD MAIN P. C. BOARD CONNECTOR CN54
CN431
GRAPHIC EQ. P. C. BOARD
CN551
CN552
3 DEMENTION P. C. BOARD
W971
SJ440
SJ439
FROM SUB TRANS P. C. BOARD (W439)
FROM MAIN TRANS-1 P. C. BOARD (CA995)
CN302
CN438
FROM SUB TRANS P. C. BOARD (CA438)
CN831
TUNER MAIN P. C. BOARD
CN837
CN901
CN802
CN801
CN612
CN210
CN753
DOLBY P. C. BOARD
CN611
CN208
CN209
W751
DECK SWITCH P. C. BOARD
MOTOR VOLUME
CA751
CA752
AMP. CONTROL P. C. BOARD
CA302
CA301
W304
CA901
W303
W301
W302
SJ303
CN981
CN982
D985
CA981
VOLUME IND P. C. BOARD
END SW.
CA903
CA441
SJ302
MOTOR VOLUME P. C. BOARD
TUNER FRONT P. C. BOARD
CA902
CA901
TUNER/TIMER DISPLAY
BK
WH
RE
BR
BL
GY
PI
GR

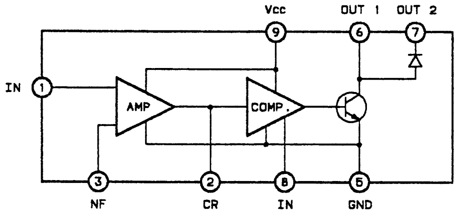
IC BLOCK DIAGRAM

BA4558N BLOCK DIAGRAM



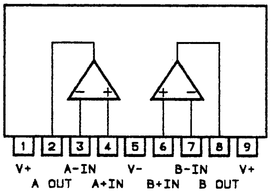
1
2
3
4
5
6
7
8
OUT1 -IN1 +IN1 VEE +IN2 -IN2 OUT2 Vcc

LA2000 BLOCK DIAGRAM



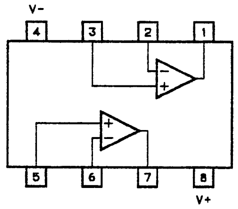
Vcc
OUT 1
OUT 2
IN
AMP
COMP.
NF
CR
IN
GND

LA6458S BLOCK DIAGRAM



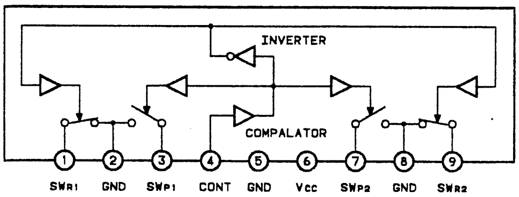
1 2 3 4 5 6 7 8 9
V+ A-IN V- B-IN V+
A OUT A+IN B+IN B OUT

UPC4570C BLOCK DIAGRAM



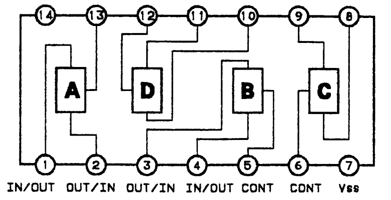
V-
4 3 2 1
5 6 7 8
V+

UPC1330HA BLOCK DIAGRAM



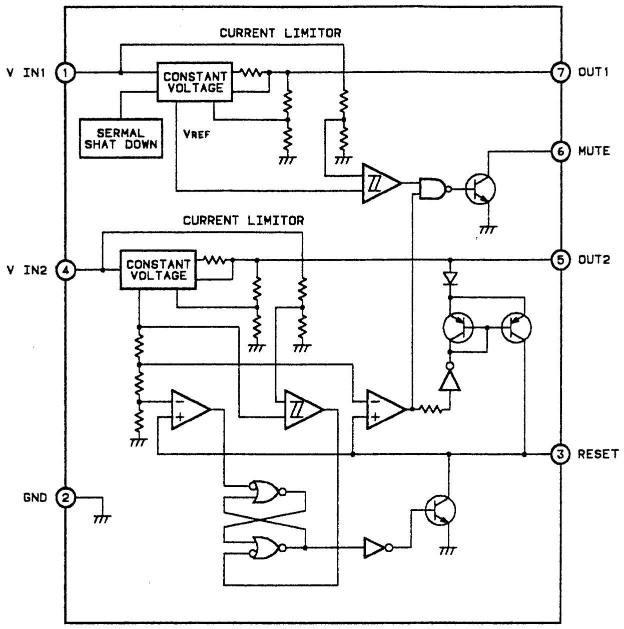
INVERTER
COMPALATOR
SWR1 GND SWP1 CONT GND Vcc SWP2 GND SWR2

LC4066B BLOCK DIAGRAM



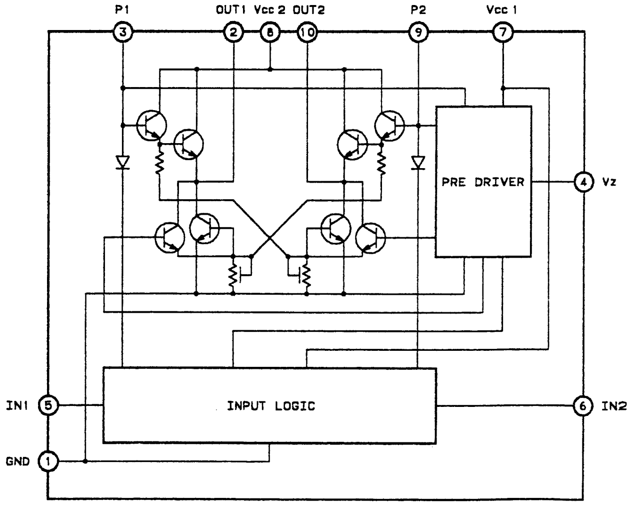
VDD CONT CONT IN/OUT OUT/IN OUT/IN IN/OUT
A
D
B
C
IN/OUT OUT/IN OUT/IN IN/OUT CONT CONT Vss

LA5667 BLOCK DIAGRAM



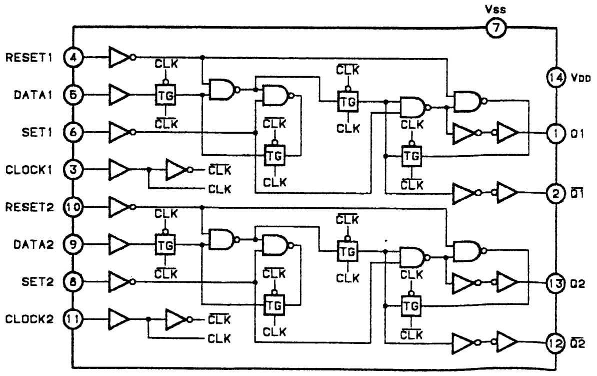
CURRENT LIMITOR
V IN1
CONSTANT VOLTAGE
OUT1
SERMAL SHAT DOWN
VREF
MUTE
CURRENT LIMITOR
V IN2
CONSTANT VOLTAGE
OUT2
RESET
GND

LB1641 BLOCK DIAGRAM



P1
OUT1 Vcc 2 OUT2
P2
Vcc 1
PRE DRIVER
Vz
IN1
INPUT LOGIC
IN2
GND

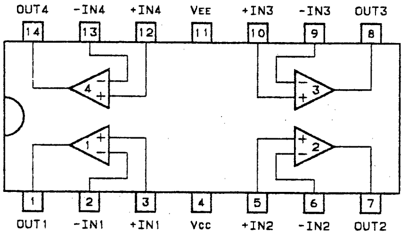
LC4913 BLOCK DIAGRAM



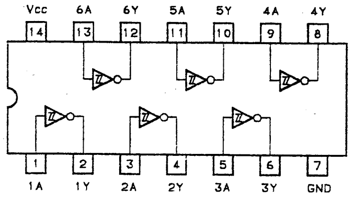
Vss
RESET1
DATA1
SET1
CLOCK1
RESET2
DATA2
SET2
CLOCK2
VDD
Q1
$\overline{Q1}$
Q2
$\overline{Q2}$
CLK
$\overline{CLK}$
TG

IC BLOCK DIAGRAM (Continued)

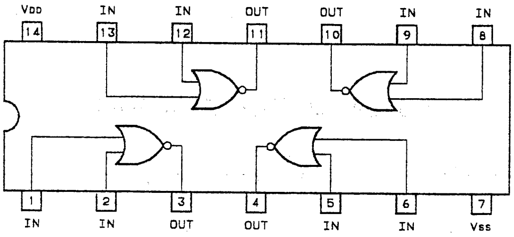
BA14741 BLOCK DIAGRAM


OUT4
-IN4
+IN4
VEE
+IN3
-IN3
OUT3
14
13
12
11
10
9
8
4
3
1
2
1
2
3
4
5
6
7
OUT1
-IN1
+IN1
Vcc
+IN2
-IN2
OUT2

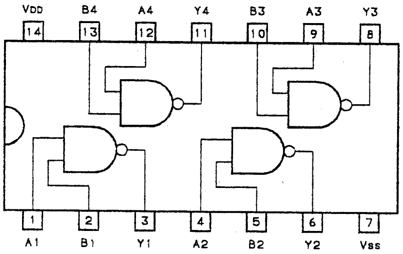
MC74HC14AN BLOCK DIAGRAM


Vcc
6A
6Y
5A
5Y
4A
4Y
14
13
12
11
10
9
8
1
2
3
4
5
6
7
1A
1Y
2A
2Y
3A
3Y
GND

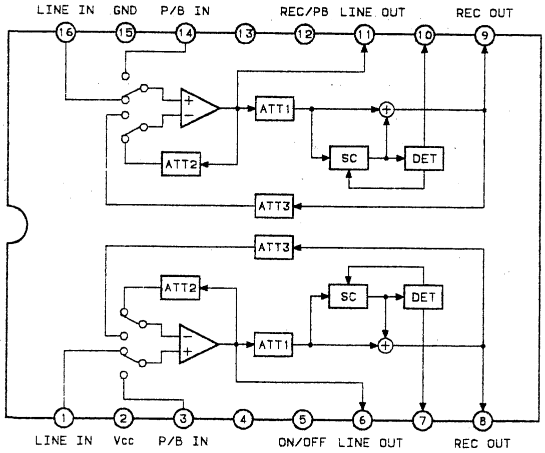
MLC4001B BLOCK DIAGRAM


VDD
IN
IN
OUT
OUT
IN
IN
14
13
12
11
10
9
8
1
2
3
4
5
6
7
IN
IN
OUT
OUT
IN
IN
Vss

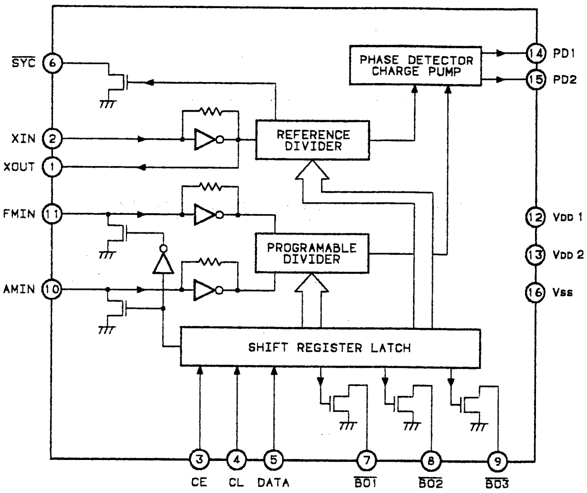
MLC4011B BLOCK DIAGRAM


VDD
B4
A4
Y4
B3
A3
Y3
14
13
12
11
10
9
8
1
2
3
4
5
6
7
A1
B1
Y1
A2
B2
Y2
Vss

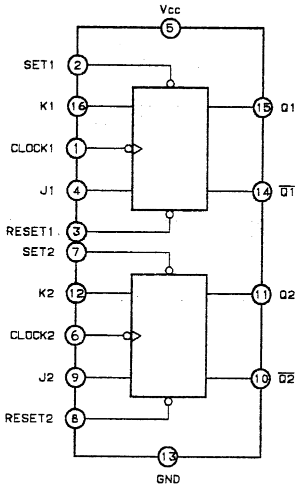
HA12136A BLOCK DIAGRAM


LINE IN
GND
P/B IN
REC/PB LINE OUT
REC OUT
16
15
14
13
12
11
10
9
ATT1
ATT2
SC
DET
ATT3
ATT3
ATT2
SC
DET
ATT1
1
2
3
4
5
6
7
8
LINE IN
Vcc
P/B IN
ON/OFF
LINE OUT
REC OUT

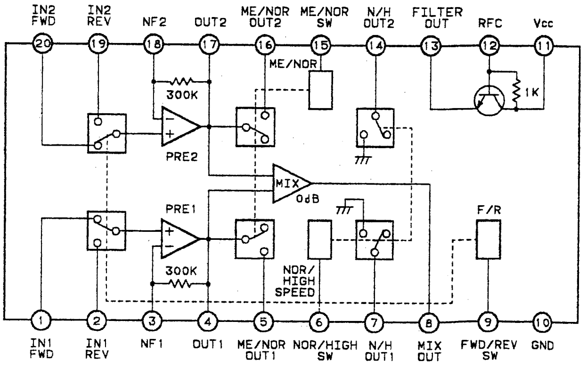
LM7001 BLOCK DIAGRAM


$\overline{SYC}$
6
XIN
2
XOUT
1
FMIN
11
AMIN
10
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
PROGRAMABLE DIVIDER
SHIFT REGISTER LATCH
14
PD1
15
PD2
12
VDD 1
13
VDD 2
16
Vss
3
4
5
7
8
9
CE
CL
DATA
$\overline{BO1}$
$\overline{BO2}$
$\overline{BO3}$

MC74HC76N BLOCK DIAGRAM

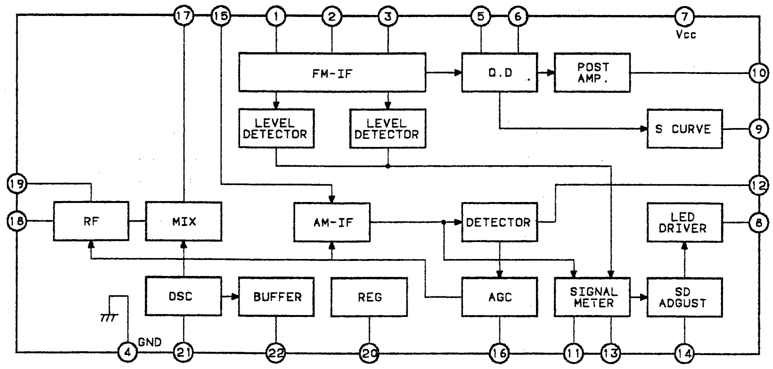

Vcc
5
SET1
2
K1
16
CLOCK1
1
J1
4
RESET1
3
SET2
7
K2
12
CLOCK2
6
J2
9
RESET2
8
15
Q1
14
$\overline{Q1}$
11
Q2
10
$\overline{Q2}$
13
GND

LA3246 BLOCK DIAGRAM


IN2 FWD
IN2 REV
NF2
OUT2
ME/NOR OUT2
ME/NOR SW
N/H OUT2
FILTER OUT
RFC
Vcc
20
19
18
17
16
15
14
13
12
11
ME/NOR
300K
PRE2
1K
MIX
0dB
PRE1
F/R
300K
NOR/ HIGH SPEED
1
2
3
4
5
6
7
8
9
10
IN1 FWD
IN1 REV
NF1
OUT1
ME/NOR OUT1
NOR/HIGH SW
N/H OUT1
MIX OUT
FWD/REV SW
GND

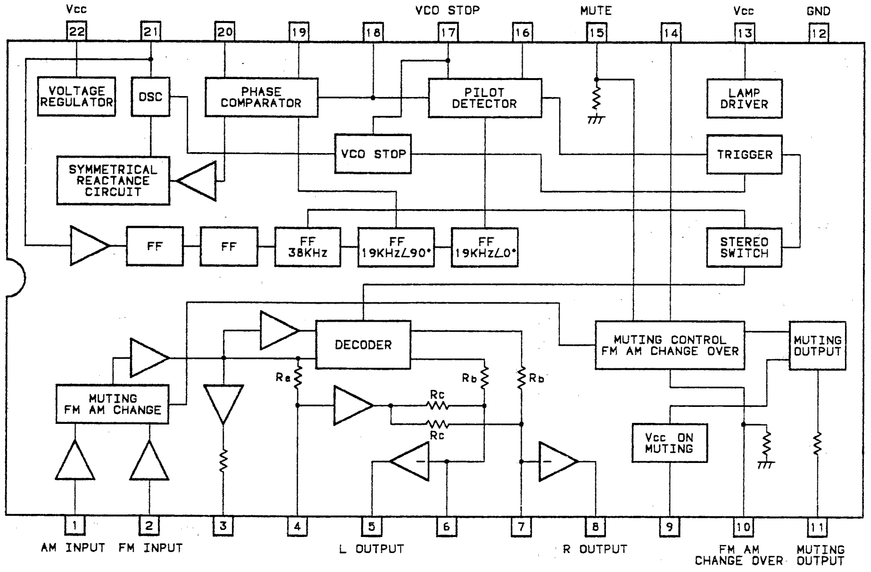
IC BLOCK DIAGRAM (Continued)

LA1265 BLOCK DIAGRAM



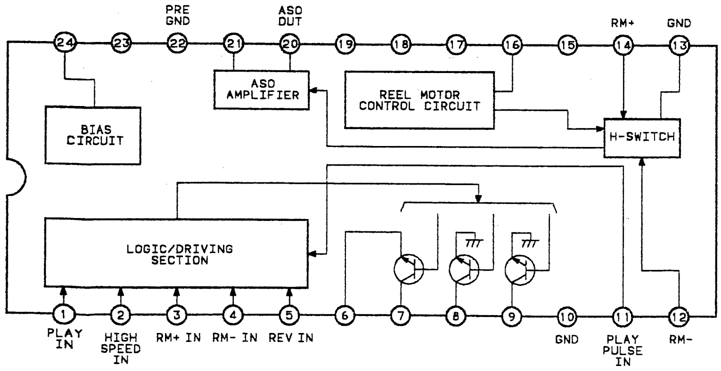
17
15
1
2
3
5
6
7
Vcc
FM-IF
Q.D
POST AMP.
10
LEVEL DETECTOR
LEVEL DETECTOR
S CURVE
9
19
12
18
RF
MIX
AM-IF
DETECTOR
LED DRIVER
8
OSC
BUFFER
REG
AGC
SIGNAL METER
SD ADGUST
4
GND
21
22
20
16
11
13
14

LA3401 BLOCK DIAGRAM



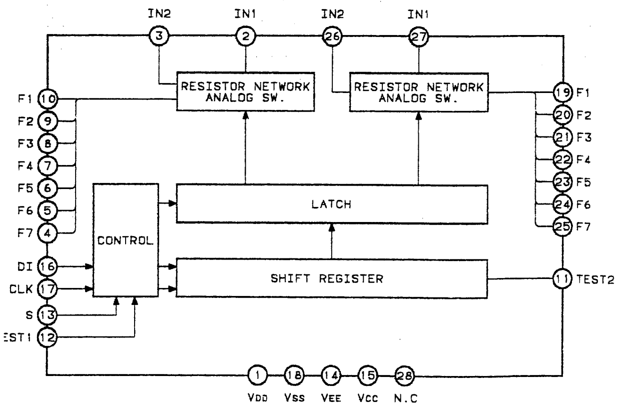
Vcc
22
21
20
19
18
VCO STOP
17
16
MUTE
15
14
Vcc
13
GND
12
VOLTAGE REGULATOR
OSC
PHASE COMPARATOR
PILOT DETECTOR
LAMP DRIVER
VCO STOP
TRIGGER
SYMMETRICAL REACTANCE CIRCUIT
FF
FF
FF 38KHz
FF 19KHz∠90°
FF 19KHz∠0°
STEREO SWITCH
DECODER
MUTING CONTROL FM AM CHANGE OVER
MUTING OUTPUT
MUTING FM AM CHANGE
Ra
Rb
Rb
Rc
Rc
Vcc ON MUTING
1
2
3
4
5
6
7
8
9
10
11
AM INPUT
FM INPUT
L OUTPUT
R OUTPUT
FM AM CHANGE OVER
MUTING OUTPUT

TA8121AN BLOCK DIAGRAM



PRE GND
ASO OUT
RM+
GND
24
23
22
21
20
19
18
17
16
15
14
13
BIAS CIRCUIT
ASO AMPLIFIER
REEL MOTOR CONTROL CIRCUIT
H-SWITCH
LOGIC/DRIVING SECTION
1
2
3
4
5
6
7
8
9
10
11
12
PLAY IN
HIGH SPEED IN
RM+ IN
RM- IN
REV IN
GND
PLAY PULSE IN
RM-

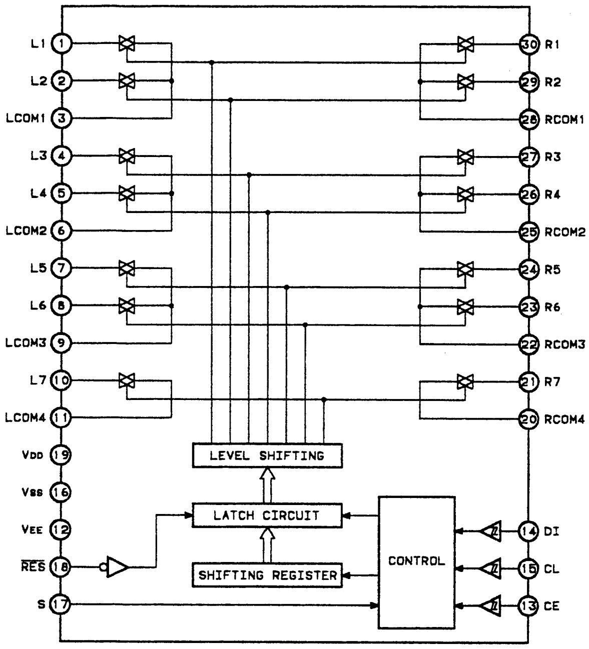
LC7522 BLOCK DIAGRAM



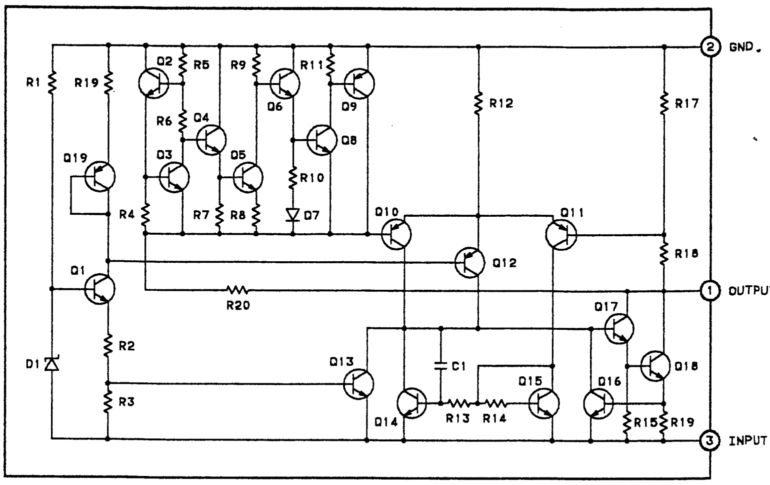
IN2
IN1
IN2
IN1
3
2
26
27
RESISTOR NETWORK ANALOG SW.
RESISTOR NETWORK ANALOG SW.
F1 10
F2 9
F3 8
F4 7
F5 6
F6 5
F7 4
19 F1
20 F2
21 F3
22 F4
23 F5
24 F6
25 F7
CONTROL
LATCH
SHIFT REGISTER
DI 16
CLK 17
S 13
EST1 12
11 TEST2
1
18
14
15
28
VDD
VSS
VEE
VCC
N.C

IC BLOCK DIAGRAM (Continued)

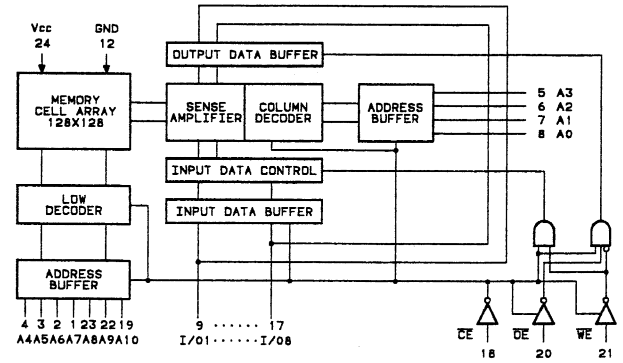
LC7823 BLOCK DIAGRAM


L1 1
L2 2
LCOM1 3
L3 4
L4 5
LCOM2 6
L5 7
L6 8
LCOM3 9
L7 10
LCOM4 11
VDD 19
VSS 16
VEE 12
RES 18
S 17
30 R1
29 R2
28 RCOM1
27 R3
26 R4
25 RCOM2
24 R5
23 R6
22 RCOM3
21 R7
20 RCOM4
14 DI
15 CL
13 CE
LEVEL SHIFTING
LATCH CIRCUIT
SHIFTING REGISTER
CONTROL

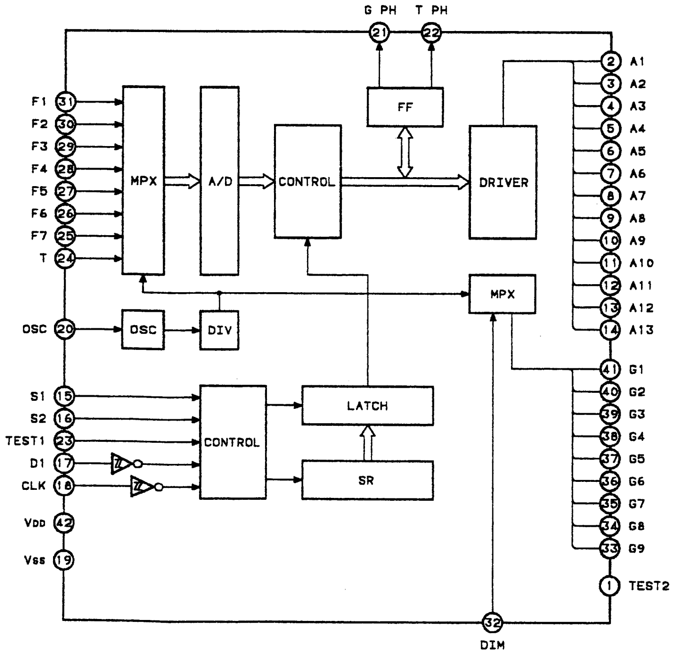
TA79L006P BLOCK DIAGRAM


2 GND
1 OUTPU
3 INPUT
R1
R19
Q2
R5
R9
R11
Q6
Q9
R6
Q4
Q8
Q19
Q3
Q5
R10
R4
R7
R8
D7
Q10
Q11
R12
R17
R18
Q1
Q12
R20
Q17
D1
R2
Q13
C1
Q15
Q16
Q18
R3
Q14
R13
R14
R15
R19

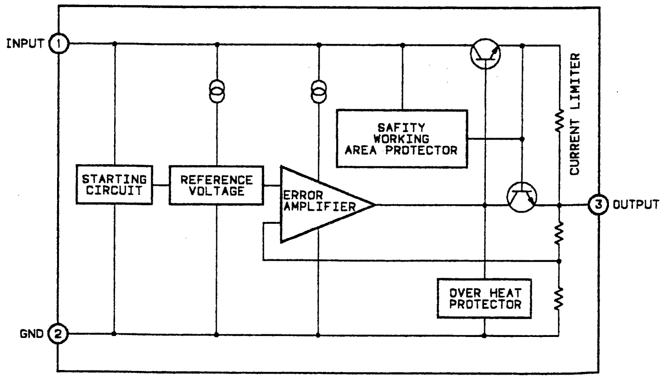
LC3517BM-15 BLOCK DIAGRAM


Vcc 24
GND 12
OUTPUT DATA BUFFER
MEMORY CELL ARRAY 128X128
SENSE AMPLIFIER
COLUMN DECODER
ADDRESS BUFFER
5 A3
6 A2
7 A1
8 A0
INPUT DATA CONTROL
LOW DECODER
INPUT DATA BUFFER
ADDRESS BUFFER
4 3 2 1 23 22 19
A4A5A6A7A8A9A10
9 ······ 17
I/O1 ······ I/O8
CE 18
OE 20
WE 21

LC7565 BLOCK DIAGRAM

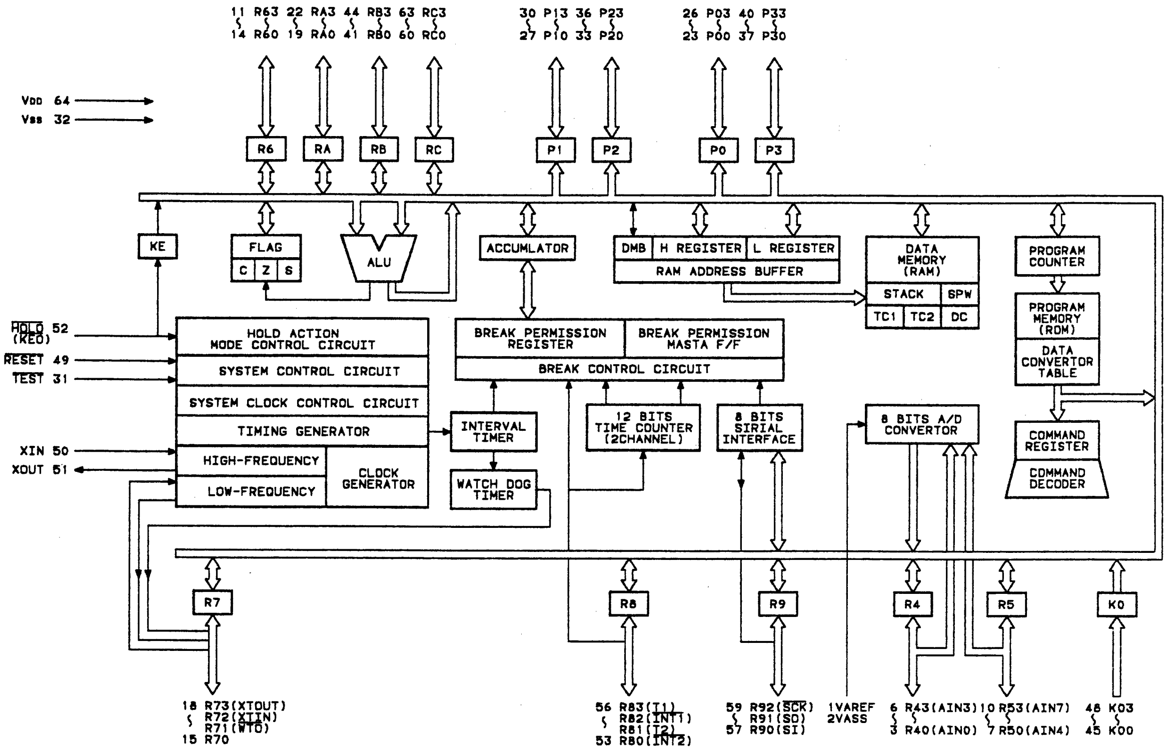

G PH 21
T PH 22
F1 31
F2 30
F3 29
F4 28
F5 27
F6 26
F7 25
T 24
OSC 20
S1 15
S2 16
TEST1 23
D1 17
CLK 18
VDD 42
VSS 19
MPX
A/D
CONTROL
FF
DRIVER
MPX
OSC
DIV
CONTROL
LATCH
SR
2 A1
3 A2
4 A3
5 A4
6 A5
7 A6
8 A7
9 A8
10 A9
11 A10
12 A11
13 A12
14 A13
41 G1
40 G2
39 G3
38 G4
37 G5
36 G6
35 G7
34 G8
33 G9
1 TEST2
32 DIM

L78M05 BLOCK DIAGRAM

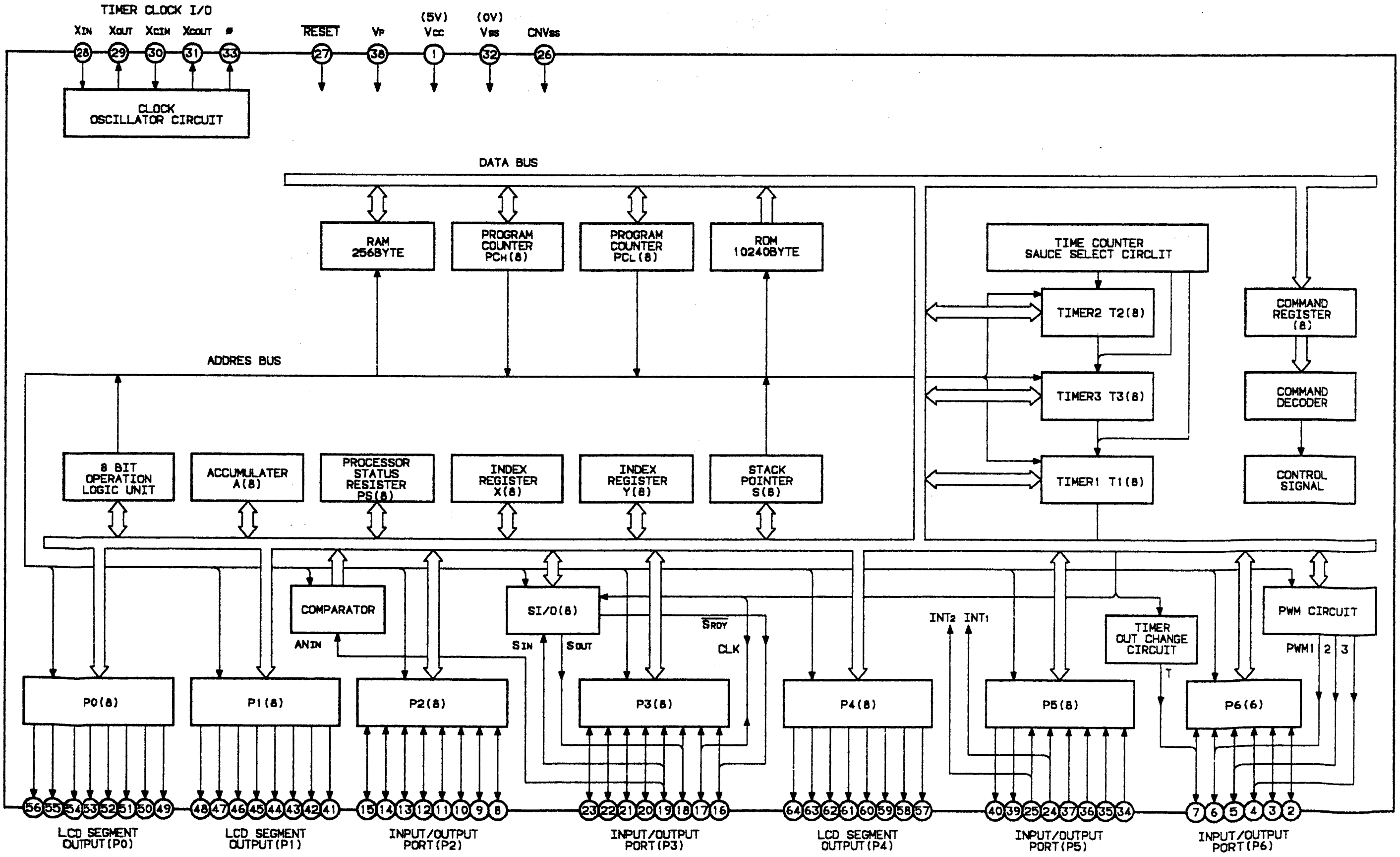

INPUT 1
GND 2
3 OUTPUT
SAFITY WORKING AREA PROTECTOR
CURRENT LIMITER
STARTING CIRCUIT
REFERENCE VOLTAGE
ERROR AMPLIFIER
OVER HEAT PROTECTOR

IC BLOCK DIAGRAM (Continued)

TMP47C870N-4634Z BLOCK DIAGRAM

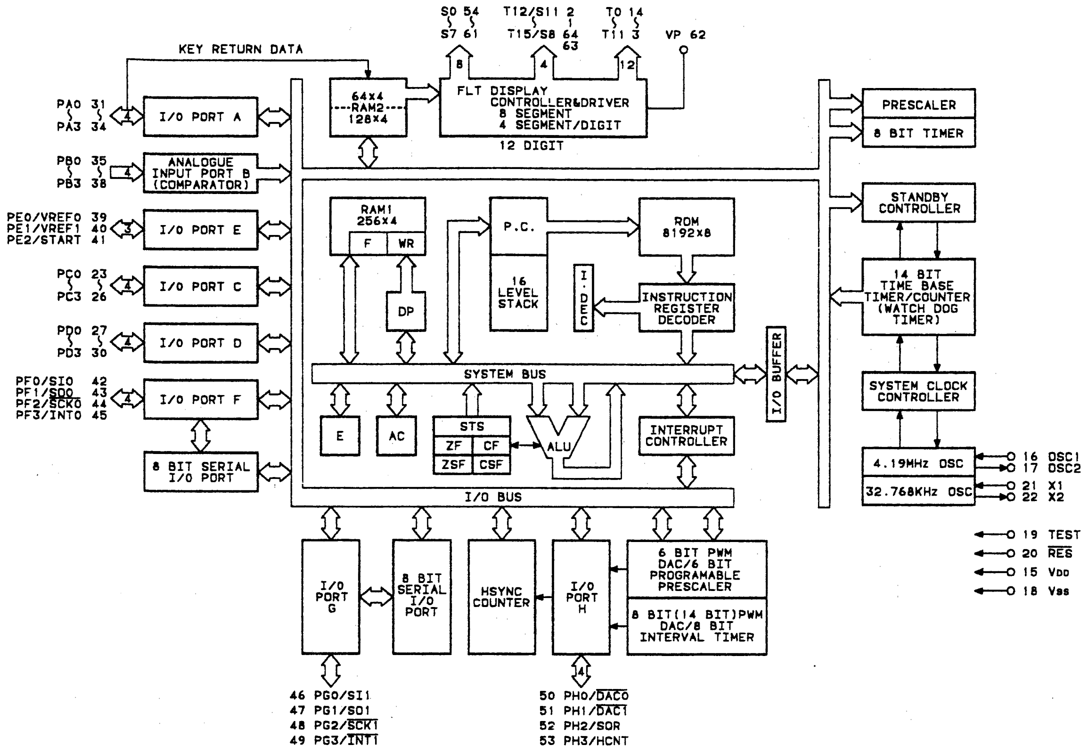

11 R63 22 RA3 44 RB3 63 RC3
14 R60 19 RA0 41 RB0 60 RC0
30 P13 36 P23
27 P10 33 P20
26 P03 40 P33
23 P00 37 P30
VDD 64
VSS 32
R6
RA
RB
RC
P1
P2
P0
P3
KE
FLAG
C
Z
S
ALU
ACCUMLATOR
DMB
H REGISTER
L REGISTER
RAM ADDRESS BUFFER
DATA MEMORY (RAM)
STACK
SPW
TC1
TC2
DC
PROGRAM COUNTER
PROGRAM MEMORY (ROM)
DATA CONVERTOR TABLE
COMMAND REGISTER
COMMAND DECODER
HOLD (KEO) 52
RESET 49
TEST 31
XIN 50
XOUT 51
HOLD ACTION MODE CONTROL CIRCUIT
SYSTEM CONTROL CIRCUIT
SYSTEM CLOCK CONTROL CIRCUIT
TIMING GENERATOR
HIGH-FREQUENCY
LOW-FREQUENCY
CLOCK GENERATOR
INTERVAL TIMER
WATCH DOG TIMER
BREAK PERMISSION REGISTER
BREAK PERMISSION MASTA F/F
BREAK CONTROL CIRCUIT
12 BITS TIME COUNTER (2CHANNEL)
8 BITS SIRIAL INTERFACE
8 BITS A/D CONVERTOR
R7
R8
R9
R4
R5
K0
18 R73(XTOUT)
R72(XTIN)
R71(WTO)
15 R70
56 R83(T1)
R82(INT1)
R81(T2)
53 R80(INT2)
59 R92(SCK)
R91(SO)
57 R90(SI)
1VAREF
2VASS
6 R43(AIN3)
3 R40(AIN0)
10 R53(AIN7)
7 R50(AIN4)
48 K03
45 K00

M50957-213SP BLOCK DIAGRAM

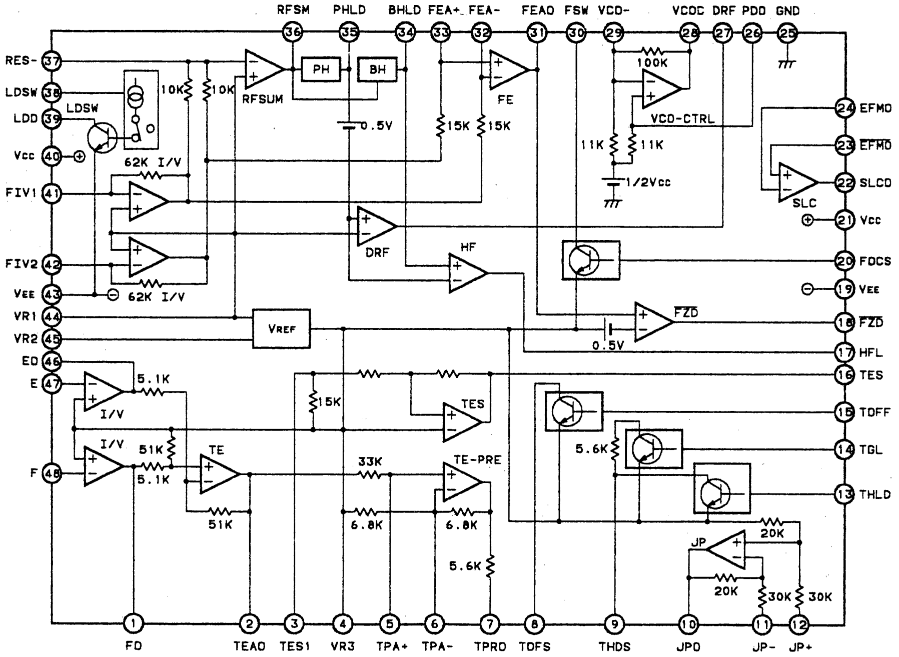

TIMER CLOCK I/O
XIN
XOUT
XCIN
XCOUT
φ
28
29
30
31
33
RESET
27
VP
38
(5V) VCC
1
(0V) VSS
32
CNVSS
26
CLOCK OSCILLATOR CIRCUIT
DATA BUS
RAM 256BYTE
PROGRAM COUNTER PCH(8)
PROGRAM COUNTER PCL(8)
ROM 10240BYTE
TIME COUNTER SAUCE SELECT CIRCLIT
TIMER2 T2(8)
TIMER3 T3(8)
TIMER1 T1(8)
COMMAND REGISTER (8)
COMMAND DECODER
CONTROL SIGNAL
ADDRES BUS
8 BIT OPERATION LOGIC UNIT
ACCUMULATER A(8)
PROCESSOR STATUS RESISTER PS(8)
INDEX REGISTER X(8)
INDEX REGISTER Y(8)
STACK POINTER S(8)
COMPARATOR
ANIN
SI/O(8)
SIN
SOUT
SRDY
CLK
INT2
INT1
TIMER OUT CHANGE CIRCUIT
T
PWM CIRCUIT
PWM1
2
3
P0(8)
P1(8)
P2(8)
P3(8)
P4(8)
P5(8)
P6(6)
56 55 54 53 52 51 50 49
48 47 46 45 44 43 42 41
15 14 13 12 11 10 9 8
23 22 21 20 19 18 17 16
64 63 62 61 60 59 58 57
40 39 25 24 37 36 35 34
7 6 5 4 3 2
LCD SEGMENT OUTPUT(P0)
LCD SEGMENT OUTPUT(P1)
INPUT/OUTPUT PORT(P2)
INPUT/OUTPUT PORT(P3)
LCD SEGMENT OUTPUT(P4)
INPUT/OUTPUT PORT(P5)
INPUT/OUTPUT PORT(P6)

IC BLOCK DIAGRAM (Continued)

LC6538D-4334 BLOCK DIAGRAM

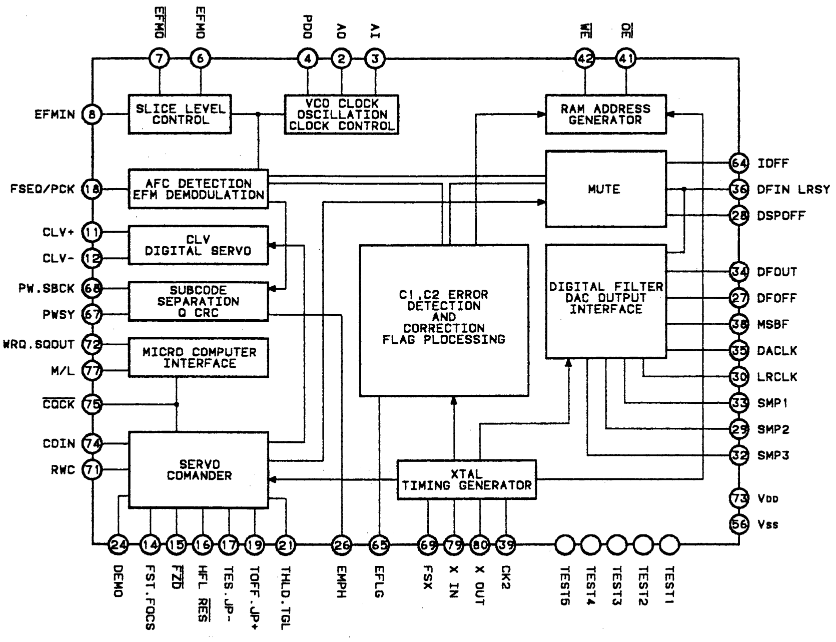

S0 54 ~ S7 61
T12/S11 2 ~ T15/S8 64 63
T0 14 ~ T11 3
VP 62
KEY RETURN DATA
8
4
12
64x4 RAM2 128x4
FLT DISPLAY CONTROLLER&DRIVER 8 SEGMENT 4 SEGMENT/DIGIT
12 DIGIT
PA0 31 ~ PA3 34
I/O PORT A
PB0 35 ~ PB3 38
ANALOGUE INPUT PORT B (COMPARATOR)
PE0/VREF0 39
PE1/VREF1 40
PE2/START 41
I/O PORT E
PC0 23 ~ PC3 26
I/O PORT C
PD0 27 ~ PD3 30
I/O PORT D
PF0/SI0 42
PF1/SO0 43
PF2/SCK0 44
PF3/INT0 45
I/O PORT F
8 BIT SERIAL I/O PORT
RAM1 256x4
F
WR
DP
P.C.
16 LEVEL STACK
ROM 8192x8
I DEC
INSTRUCTION REGISTER DECODER
SYSTEM BUS
E
AC
STS
ZF
CF
ZSF
CSF
ALU
INTERRUPT CONTROLLER
I/O BUFFER
I/O BUS
PRESCALER
8 BIT TIMER
STANDBY CONTROLLER
14 BIT TIME BASE TIMER/COUNTER (WATCH DOG TIMER)
SYSTEM CLOCK CONTROLLER
4.19MHz OSC
32.768KHz OSC
16 OSC1
17 OSC2
21 X1
22 X2
19 TEST
20 RES
15 VDD
18 VSS
I/O PORT G
8 BIT SERIAL I/O PORT
HSYNC COUNTER
I/O PORT H
6 BIT PWM DAC/6 BIT PROGRAMABLE PRESCALER
8 BIT(14 BIT)PWM DAC/8 BIT INTERVAL TIMER
46 PG0/SI1
47 PG1/SO1
48 PG2/SCK1
49 PG3/INT1
50 PH0/DAC0
51 PH1/DAC1
52 PH2/SOR
53 PH3/HCNT

LA9200NM BLOCK DIAGRAM

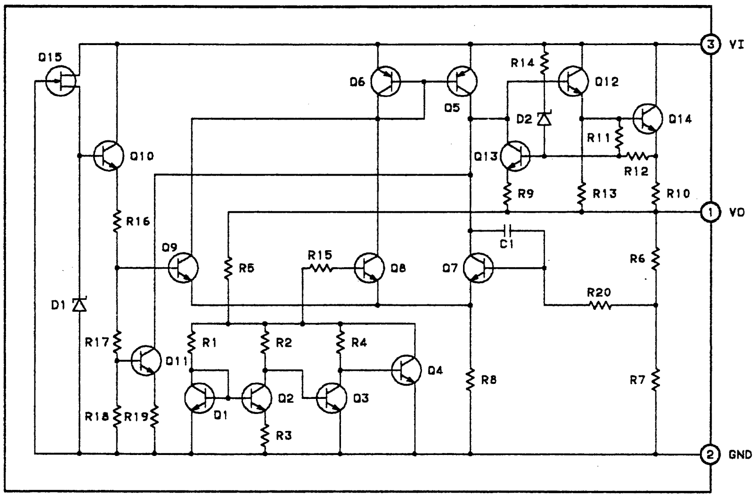

RFSM 36
PHLD 35
BHLD 34
FEA+ 33
FEA- 32
FEAO 31
FSW 30
VCO- 29
VCDC 28
DRF 27
PDD 26
GND 25
RES- 37
LDSW 38
LDD 39
Vcc 40
FIV1 41
FIV2 42
VEE 43
VR1 44
VR2 45
EO 46
E 47
F 48
LDSW
10K
10K
RFSUM
PH
BH
0.5V
15K
15K
FE
100K
VCD-CTRL
11K
11K
1/2Vcc
62K I/V
62K I/V
DRF
HF
SLC
VREF
FZD
0.5V
5.1K
I/V
I/V
51K
5.1K
TE
51K
15K
TES
33K
TE-PRE
6.8K
6.8K
5.6K
5.6K
JP
20K
20K
30K
30K
24 EFMO
23 EFMO
22 SLCO
21 Vcc
20 FOCS
19 VEE
18 FZD
17 HFL
16 TES
15 TOFF
14 TGL
13 THLD
1 FD
2 TEAO
3 TES1
4 VR3
5 TPA+
6 TPA-
7 TPRO
8 TOFS
9 THDS
10 JPO
11 JP-
12 JP+

IC BLOCK DIAGRAM (Continued)

LC7860J BLOCK DIAGRAM

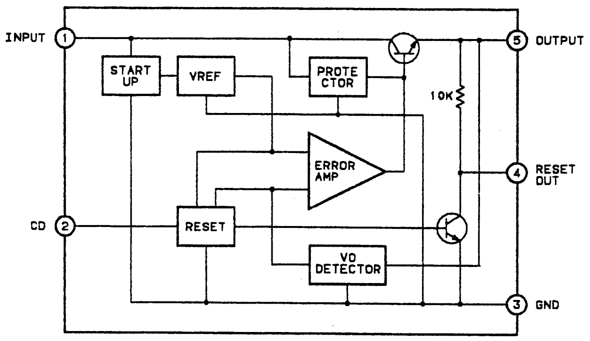

EFMO
EFMO
PDO
AO
AI
WE
OE
7
6
4
2
3
42
41
EFMIN 8
SLICE LEVEL CONTROL
VCO CLOCK OSCILLATION CLOCK CONTROL
RAM ADDRESS GENERATOR
FSEQ/PCK 18
AFC DETECTION EFM DEMODULATION
MUTE
64 IOFF
36 DFIN LRSY
28 DSPOFF
CLV+ 11
CLV- 12
CLV DIGITAL SERVO
PW.SBCK 68
PWSY 67
SUBCODE SEPARATION Q CRC
C1.C2 ERROR DETECTION AND CORRECTION FLAG PLOCESSING
DIGITAL FILTER DAC OUTPUT INTERFACE
34 DFOUT
27 DFOFF
38 MSBF
35 DACLK
30 LRCLK
33 SMP1
29 SMP2
32 SMP3
WRQ.SQOUT 72
M/L 77
MICRO COMPUTER INTERFACE
COCK 75
CDIN 74
RWC 71
SERVO COMANDER
XTAL TIMING GENERATOR
73 VDD
56 Vss
24 DEMO
14 FST.FOCS
15 FZD
16 HFL RES
17 TES.JP-
19 TOFF.JP+
21 THLD.TGL
26 EMPH
65 EFLG
69 FSX
79 X IN
80 X OUT
39 CK2
TEST5
TEST4
TEST3
TEST2
TEST1

NJM78L06A BLOCK DIAGRAM

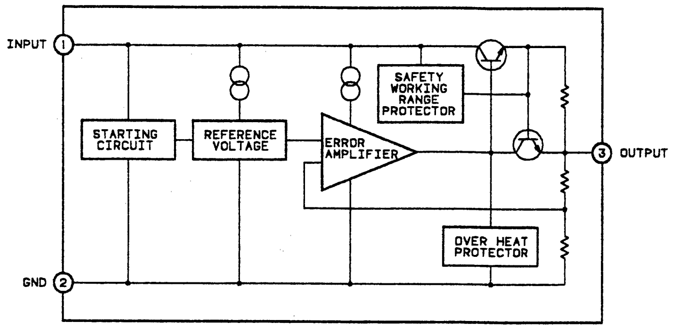

Q15
Q10
R16
D1
Q9
R5
R15
Q8
Q7
C1
Q6
Q5
R14
Q12
D2
Q14
Q13
R11
R12
R9
R13
R10
R6
R20
R17
Q11
R18
R19
R1
R2
R4
Q1
Q2
Q3
Q4
R3
R8
R7
3 VI
1 VO
2 GND

IC BLOCK DIAGRAM (Continued)

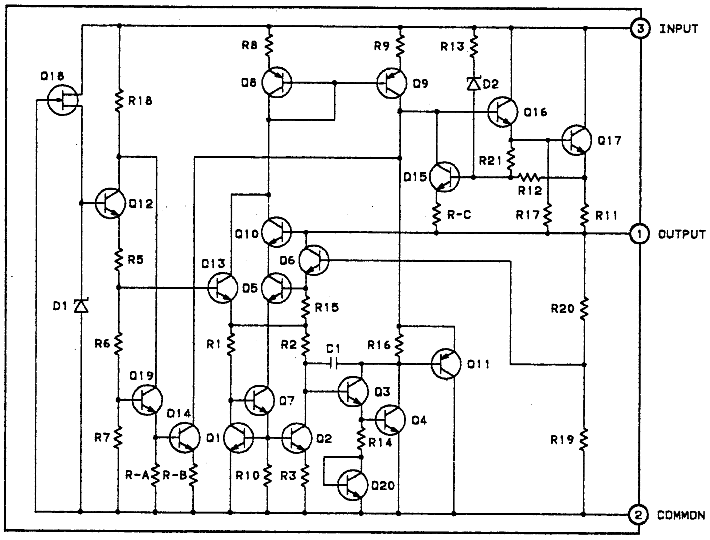
L78LR05E-MA BLOCK DIAGRAM


INPUT
1
START UP
VREF
PROTE CTOR
5
OUTPUT
10K
ERROR AMP
4
RESET OUT
CD
2
RESET
VO DETECTOR
3
GND

L78M15ML BLOCK DIAGRAM

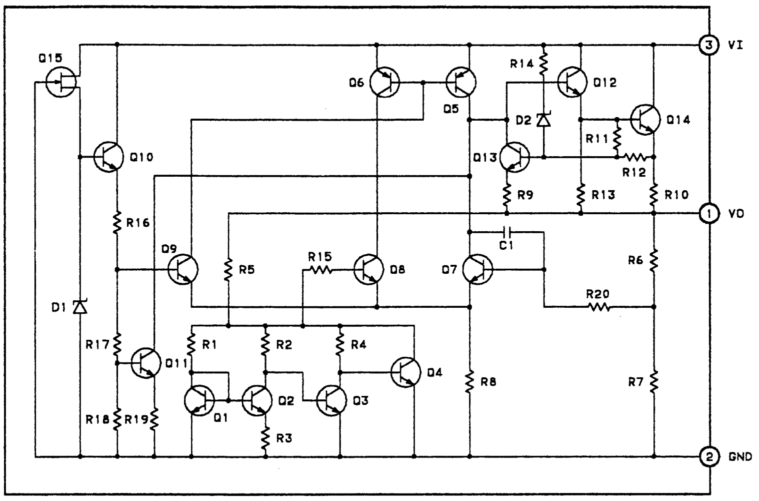

INPUT
1
SAFETY WORKING RANGE PROTECTOR
STARTING CIRCUIT
REFERENCE VOLTAGE
ERROR AMPLIFIER
3
OUTPUT
OVER HEAT PROTECTOR
GND
2

NJM78M05FA BLOCK DIAGRAM

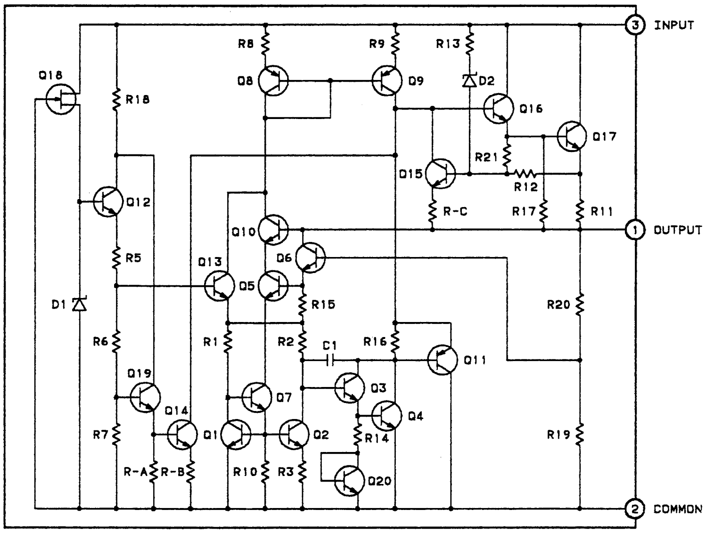

3
INPUT
R8
R9
R13
Q18
Q8
Q9
D2
R18
Q16
Q17
R21
Q15
R12
Q12
R-C
R17
R11
Q10
1
OUTPUT
R5
Q13
Q6
Q5
D1
R15
R20
R6
R1
R2
C1
R16
Q11
Q19
Q3
Q7
Q14
Q4
R7
Q1
Q2
R14
R19
R-A
R-B
R10
R3
Q20
2
COMMON

IC BLOCK DIAGRAM (Continued)

NJM78M18FA BLOCK DIAGRAM

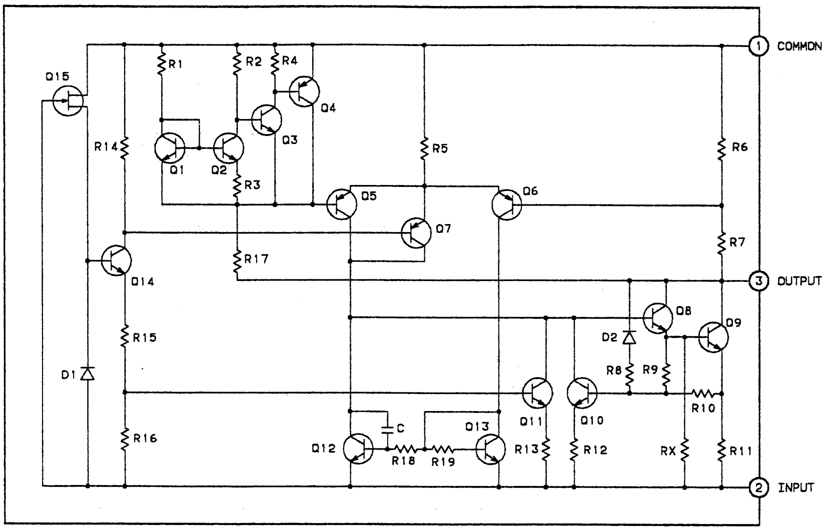

Q15
Q6
Q5
R14
Q12
D2
Q14
R11
Q10
Q13
R12
R9
R13
R10
3 VI
1 VO
R16
C1
Q9
R15
R5
Q8
Q7
R6
D1
R20
R17
Q11
R1
R2
R4
Q4
R8
R7
Q1
Q2
Q3
R18
R19
R3
2 GND

NJM7808FA BLOCK DIAGRAM


3 INPUT
R8
R9
R13
Q18
Q8
Q9
D2
R18
Q16
Q17
R21
Q15
R12
Q12
R-C
R17
R11
1 OUTPUT
Q10
Q13
Q6
Q5
R5
R15
D1
R20
R6
R1
R2
C1
R16
Q11
Q19
Q3
Q7
Q4
Q14
R7
Q1
Q2
R14
R19
R-A
R-B
R10
R3
Q20
2 COMMON

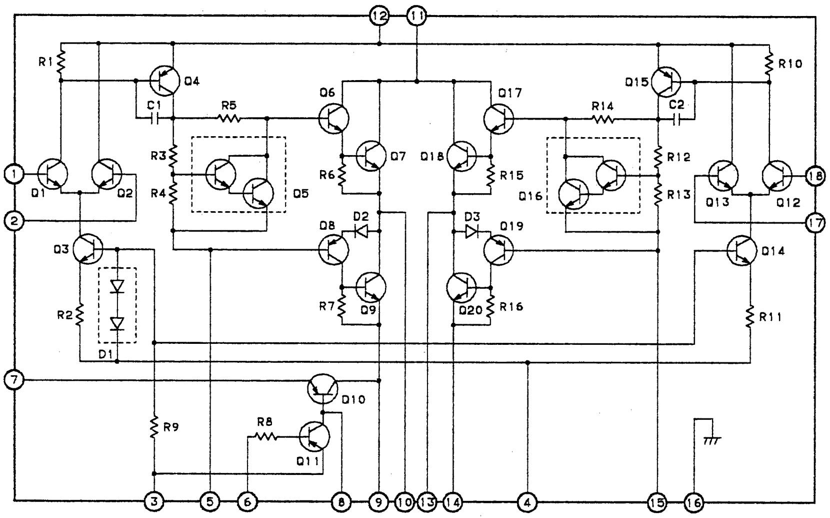
IC BLOCK DIAGRAM (Continued)

NJM79M18FA BLOCK DIAGRAM



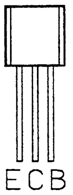
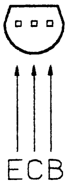
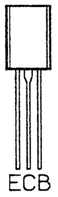
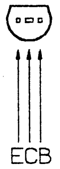
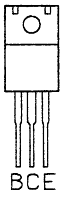
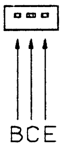
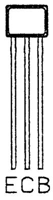
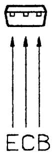
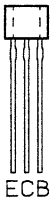
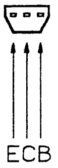
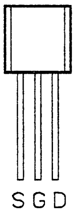
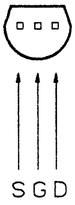
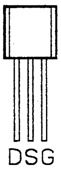
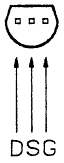
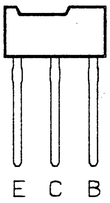
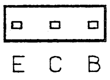
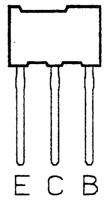
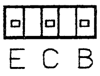
① COMMON
③ OUTPUT
② INPUT
Q15
R1
R2
R4
Q4
Q3
Q1
Q2
R3
R14
R5
R6
Q5
Q6
Q7
R7
R17
Q14
Q8
Q9
D2
R8
R9
R10
R15
D1
Q11
Q10
C
Q13
R16
Q12
R18
R19
R13
R12
RX
R11

STK4162MK2 BLOCK DIAGRAM



⑫
⑪
R1
Q4
C1
R5
Q6
Q17
R14
C2
Q15
R10
R3
R4
Q5
Q7
Q18
R6
R15
Q16
R12
R13
①
Q1
Q2
Q13
Q12
⑱
②
⑰
D2
D3
Q8
Q19
Q3
Q14
R7
Q9
Q20
R16
R2
D1
R11
⑦
Q10
R8
R9
Q11
③
⑤
⑥
⑧
⑨
⑩
⑬
⑭
④
⑮
⑯

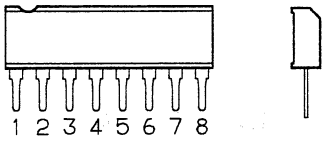
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA608 2SA984 2SC3708 2SC3792 2SC536 2SD734			2SB560 2SB764 2SD400		
2SD1913			2SA1509 2SC3899		
DTC114 2SA1346 2SA608 2SB808 2SC2839 2SC3330 2SC3400 2SC536 2SD1012			2SK246		
2SK583			DTC114EL		
2SB1240 2SD1862					

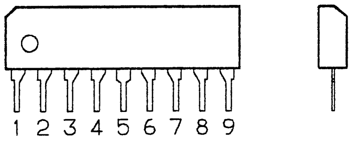
TERMINAL NAME

B → BASE	S → SOURCE
C → COLLECTOR	G → GATE
E → EMITTER	D → DRAIN

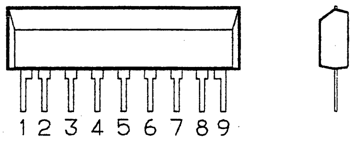
BA4558N FRONT/SIDE VIEWS



LA2000 FRONT/SIDE VIEWS
LA6458S FRONT/SIDE VIEWS

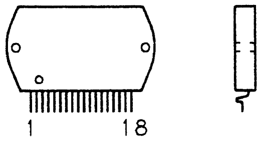


UPC1330HA FRONT/SIDE VIEWS

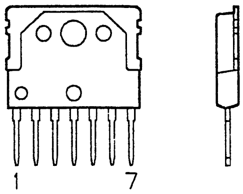


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

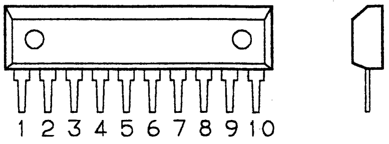
STK4162MK2 FRONT/SIDE VIEWS



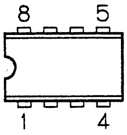
LA5667 FRONT/SIDE VIEWS



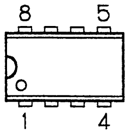
LB1641 FRONT/SIDE VIEWS


1 2 3 4 5 6 7 8 9 10

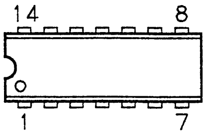
M6M80021P TOP VIEW



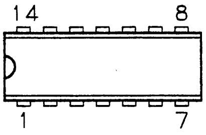
UPC4570C TOP VIEW



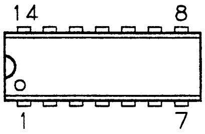
LC4066B TOP VIEW
LC4913 TOP VIEW



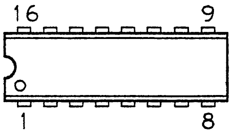
BA14741 TOP VIEW



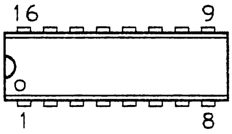
MC74HC14AN TOP VIEW
MLC4001B TOP VIEW
MLC4011B TOP VIEW



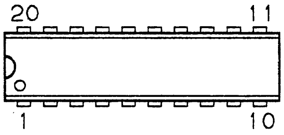
HA12136A TOP VIEW
LM7001 TOP VIEW



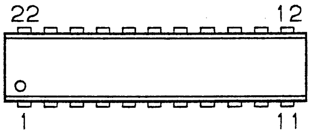
MC74HC76N TOP VIEW



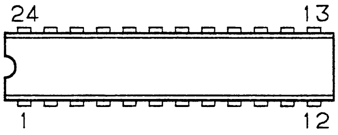
LA3246 TOP VIEW



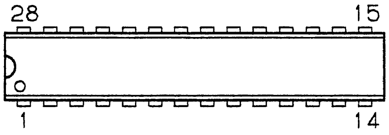
LA1265 TOP VIEW
LA3401 TOP VIEW



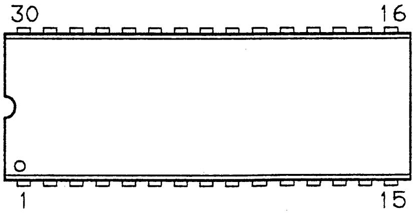
TA8121AN TOP VIEW



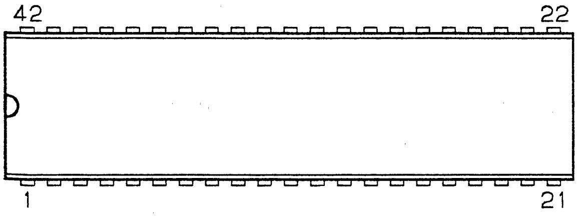
LC7522 TOP VIEW



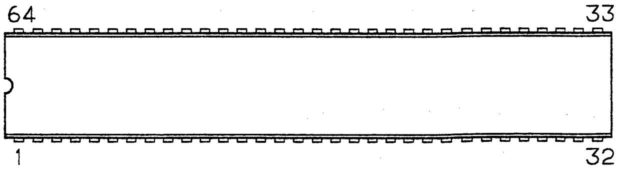
LC7823 TOP VIEW



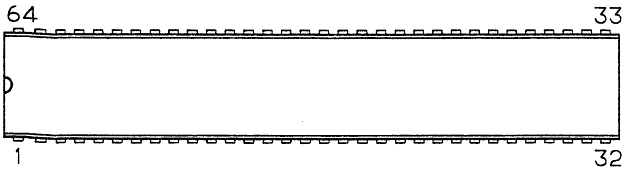
LC7565 TOP VIEW



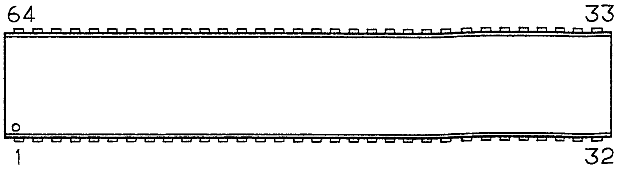
TMP47C870N-4634Z TOP VIEW



M50957-213SP TOP VIEW

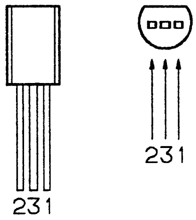


LC6538D-4334 TOP VIEW

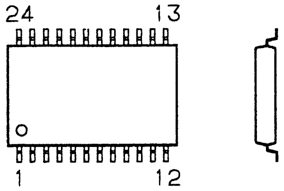


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

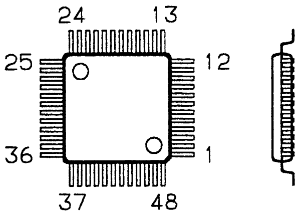
TA79L006P TOP/SIDE VIEWS



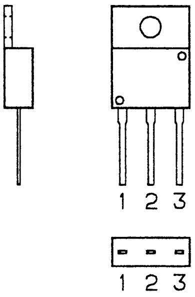
LC3517BM-15 TOP/SIDE VIEWS



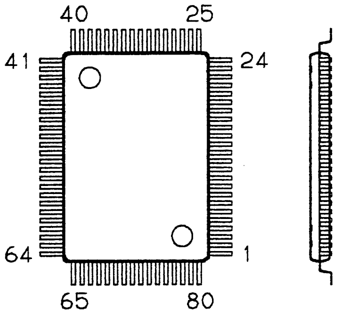
LA9200NM TOP/SIDE VIEWS


24
13
25
12
36
1
37
48

L78M05 TOP/SIDE VIEWS



LC7860J TOP/SIDE VIEWS


40
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41
24
64
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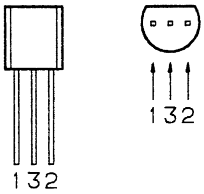
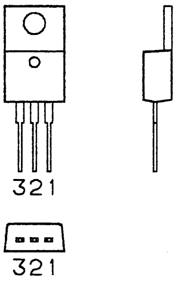
65
80

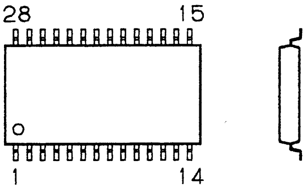
NJM78L06A TOP/SIDE VIEWS



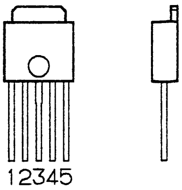
NJM78M05FA TOP/SIDE VIEWS



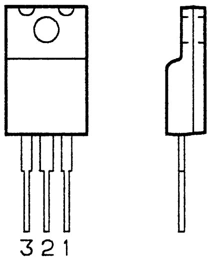
LC97000A-288 TOP/SIDE VIEWS



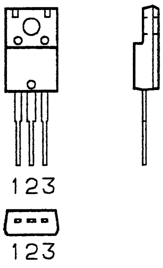
L78LR05E-MA TOP/SIDE VIEWS



NJM78M18FA TOP/SIDE VIEWS
NJM7808FA TOP/SIDE VIEWS
NJM79M18FA TOP/SIDE VIEWS



L78M15ML TOP/SIDE VIEWS



SANYO

PRODUCTION CHANGE NOTICE

Date:June,3,1991

Please add this notice to the Service Manuals listed below.

COMPACT DISC AUDIO COMPONENT SYSTEM

DC DJ5

Effective from: Serial No. 7001

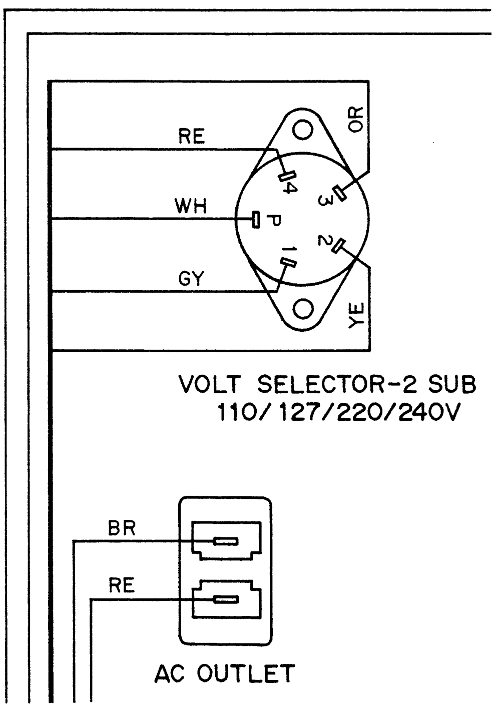
(GENERAL) **REF:WM-570429** **Issue Number 1**

The following changes have been made in the production of the unit listed above.

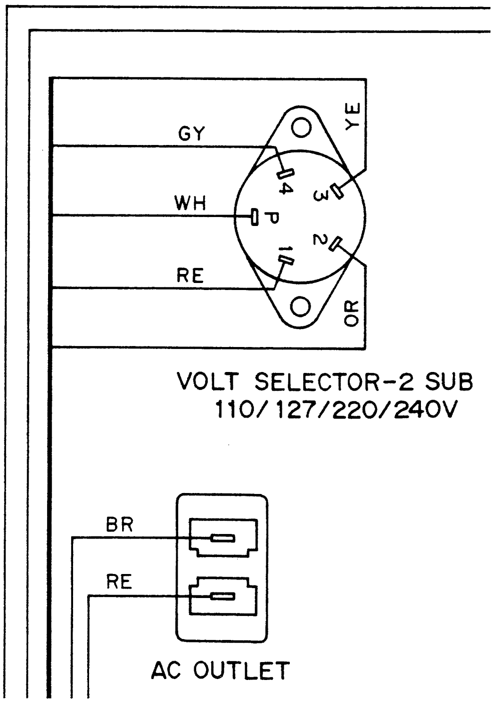
No.	Page or Section		Ref. No.	Parts No.	Description	Q'ty	Remarks
1	Cabinet Part List	**from**	66	⚠ 620 015 3348	Voltage Selector (SEL. 2 SUB)	1	
		to	66	⚠ 620 016 7901	Voltage Selector (SEL. 2 SUB)	1	

POWER SUPPLY WIRING DIAGRAM

BEFORE
(1 ~ 7000)


RE
WH
GY
OR
YE
4
3
P
2
1
VOLT SELECTOR-2 SUB
110/ 127/220/240V
BR
RE
AC OUTLET

AFTER
(7001 ~)


GY
WH
RE
YE
OR
4
3
P
2
1
VOLT SELECTOR-2 SUB
110/ 127/220/240V
BR
RE
AC OUTLET

Reason of change: Improvement of Performance

SANYO Electric Co., Ltd.
OSAKA, JAPAN

June/'91/1,000/H **Printed in Japan**

REFERENCE No. WM-57165N